NATIONAL WETLANDS INVENTORY

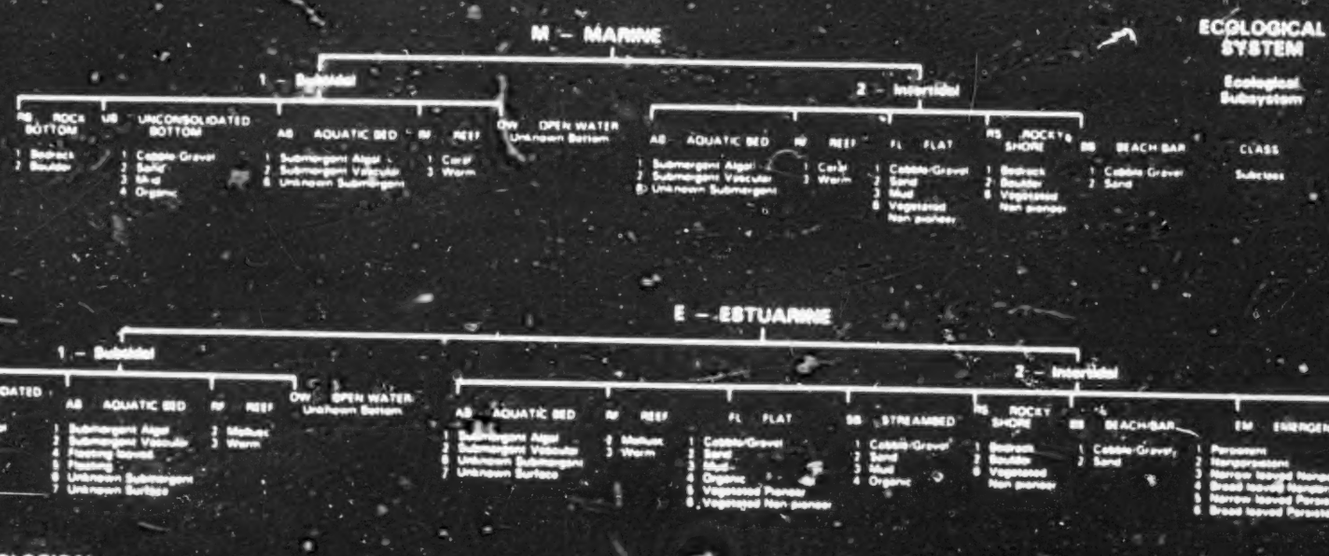
UNITED STATES DEPARTMENT OF THE INTERIOR

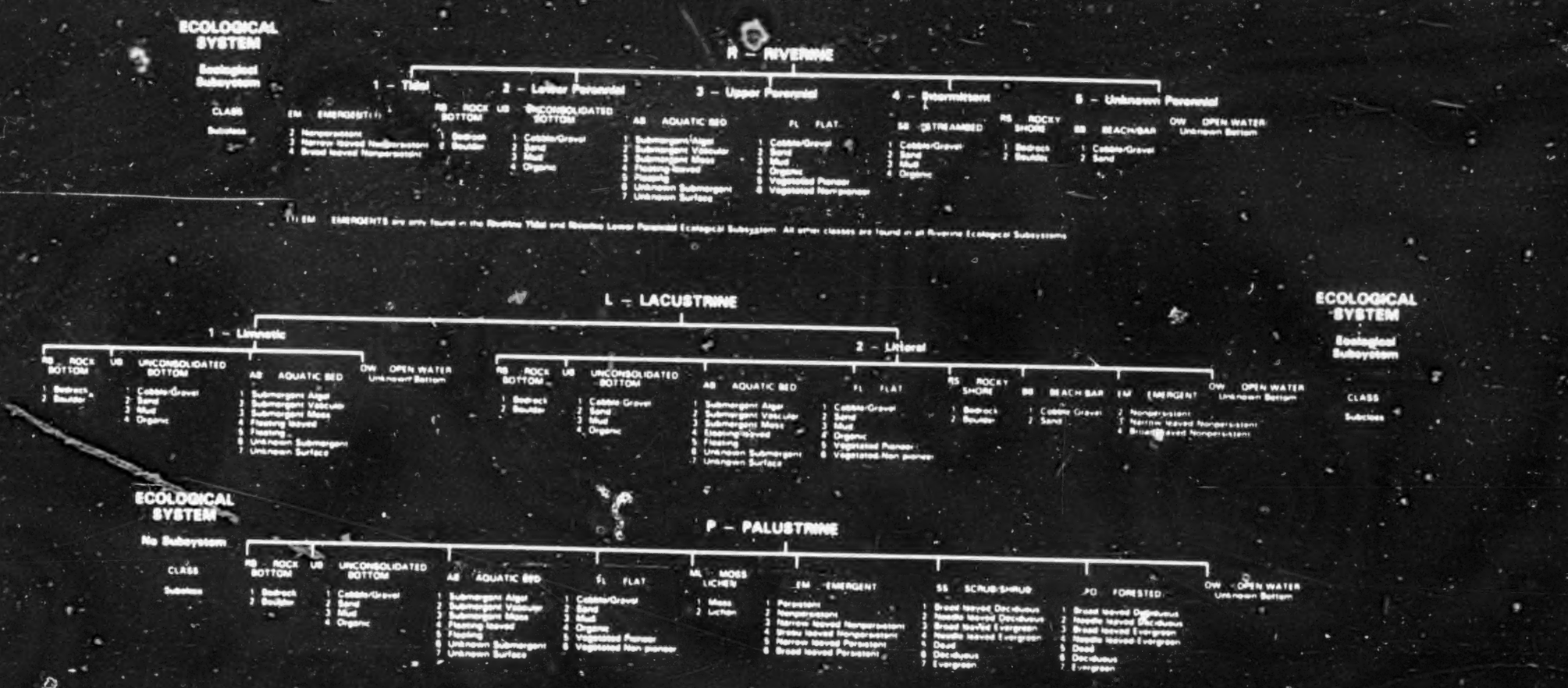
RIDGELY, MD

Ridgely
Hillsboro
Thomas Town
Downes
Queen Anne
Tappers Corner
Cordova
RIEMEN
Jumpington
Wayside
Wayne Landing
Queen Anne Co
Baltimore
Eastern
Central
Penn
Delaware
Maryland
Virginia
Chesapeake
Tuckahoe
Neck
PFO1A
PFO1C
PFO1E
PFO1/4A
PFO1/4C
PEMA
PEMBA
PEMBC
PEMBE
PEMBX
PEMBAx
PEMIBCd
PEMIAd
PFO1MA
PFO1/4MA
PFO1R
PFO4/1A
PONZx
PONZh
PONZs
PONF
PONFx
P30WH
P30WHx
PSSIA
PSSIAx
PSSIBd
PFLCx
PEMEA
PEMEBC
PEMEBE
PEMEBX
PEMEAx
PEMEAd
PEMEBCd
PEMEBEd
PEMEBXd
PEMEAdx
PEMEBCdx
PEMEBEdx
PEMEBXdx

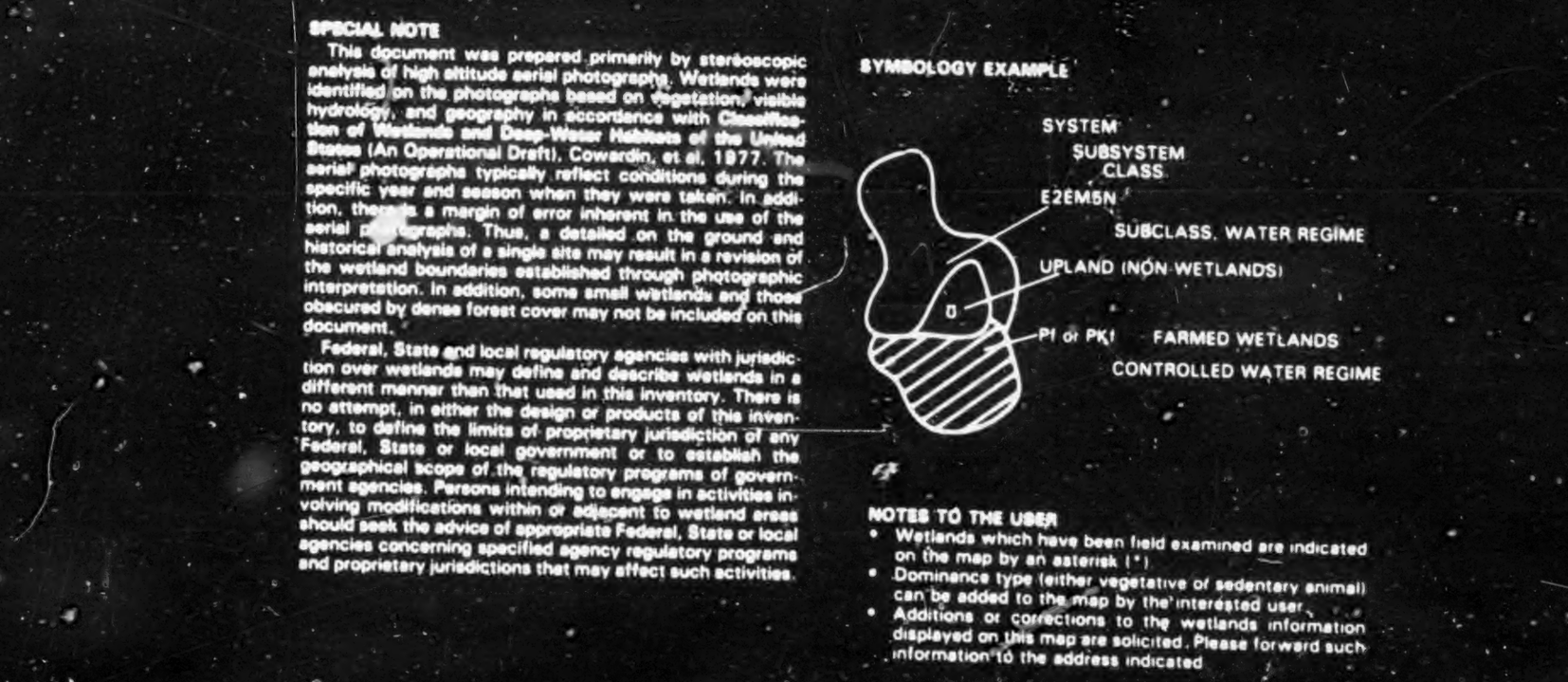
WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.





EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems



MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

A	Temporary	Nontidal but Artificially Flooded
B	Saturated	Artificial
C	Seasonal	Intermittently Exposed/Permanent
D	Seasonal Well-drained	Intermittently Flooded/Temporary
E	Seasonal Saturated	Saturated/Semipermanent/Seasonal
F	Semipermanent	Unknown
G	Intermittently Exposed	
H	Permanent	

Tidal

L	Artificial	Seasonal Tidal
M	Subtidal	Temporary Tidal
N	Irregularly Exposed	Semipermanent Tidal
P	Regular	Permanent Tidal
R	Irregular	Unknown

WATER CHEMISTRY

Coastal Salinity

1	Hypersaline
2	Eusaline
3	Mixohaline (Brackish)
4	Polyhaline
5	Mesohaline
6	Oligohaline
0	Fresh

Inland Salinity

1	Hypersaline
2	Eusaline
5	Mixohaline
0	Fresh

pH Modifiers for all Fresh Water

a	Acid
c	Circumneutral
i	Alkaline

SOIL

b	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver
d	Partially Drained/Ditched
f	Farmed
h	Diked/Impounded
r	Artificial
s	Spoil
x	Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
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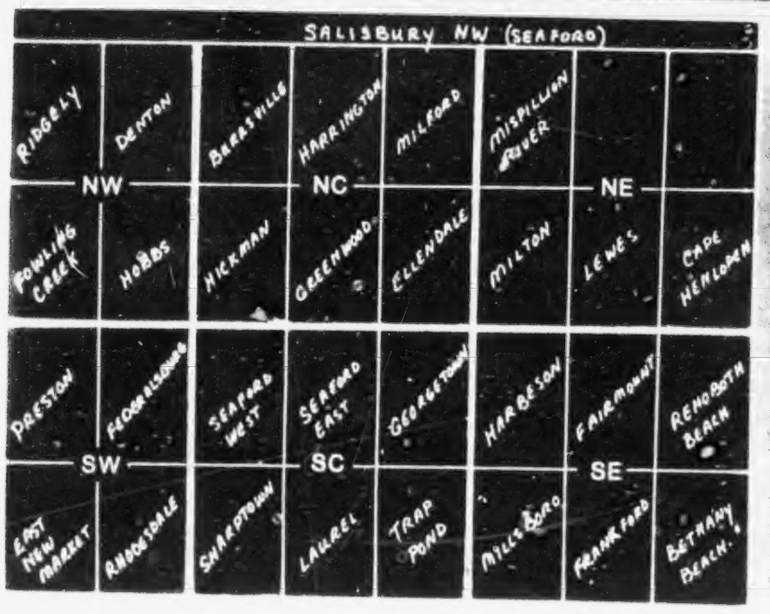

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

DENTON, MD

SALISBURY NW

SEAFORD

DENTON, MD.

AERIAL PHOTO 5/82

SCALE 1:24 000

WETLAND LEGEND

0 – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent
RF REEF: 1 Coral; 3 Worm
OW OPEN WATER: Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent
RF REEF: 1 Coral; 3 Worm
FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 6 Vegetated Non-pioneer
RS ROCKY SHORE: 1 Bedrock; 2 Boulder; 6 Vegetated Non-pioneer
BB BEACH BAR: 1 Cobble/Gravel; 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 4 Floating-leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface
RF REEF: 2 Mollusc; 3 Worm
OW OPEN WATER: Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent; 7 Unknown Surface
RF REEF: 2 Mollusc; 3 Worm
FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer
SB STREAMBED: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
RS ROCKY SHORE: 1 Bedrock; 2 Boulder; 6 Vegetated Non-pioneer
BB BEACH BAR: 1 Cobble/Gravel; 2 Sand
EM EMERGENT: 1 Persistent; 2 Nonpersistent; 3 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent; 5 Narrow-leaved Persistent; 6 Broad-leaved Persistent
SS SCRUB/SHRUB: 1 Broad-leaved Deciduous; 2 Broad-leaved Evergreen; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen
FO FORESTED: 1 Broad-leaved Deciduous; 2 Broad-leaved Evergreen; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Tidal

EM EMERGENT(1): 2 Nonpersistent; 3 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent

2 – Lower Perennial

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

3 – Upper Perennial

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating-leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer

4 – Intermittent

SB STREAMBED: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
RS ROCKY SHORE: 1 Bedrock; 2 Boulder
BB BEACH/BAR: 1 Cobble/Gravel; 2 Sand

5 – Unknown Perennial

OW OPEN WATER: Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Limnetic

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating-leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface
OW OPEN WATER: Unknown Bottom

2 – Littoral

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating-leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer
RS ROCKY SHORE: 1 Bedrock; 2 Boulder
BB BEACH BAR: 1 Cobble/Gravel; 2 Sand
EM EMERGENT: 2 Nonpersistent; 3 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent
OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM | No Subsystem | CLASS | Subclass

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic
AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating-leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer
ML MOSS LICHEN: 1 Moss; 2 Lichen
EM EMERGENT: 1 Persistent; 2 Nonpersistent; 3 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent; 5 Narrow-leaved Persistent; 6 Broad-leaved Persistent
SS SCRUB/SHRUB: 1 Broad-leaved Deciduous; 2 Needle-leaved Deciduous; 3 Broad-leaved Evergreen; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen
FO FORESTED: 1 Broad-leaved Deciduous; 2 Needle-leaved Deciduous; 3 Broad-leaved Evergreen; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen
OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal:
A Temporary; B Saturated; C Seasonal; D Seasonal Well-drained; E Seasonal Saturated; F Semipermanent; G Intermittently Exposed; H Permanent; J Intermittently Flooded; K Artificial; M Intermittently Exposed; N Regular; P Irregular; V Permanent Tidal; U Unknown

Tidal:
R Artificial; L Subtidal; S Temporary Tidal; T Semipermanent Tidal; V Permanent Tidal; U Unknown

Intermittently Flooded: Y Saturated/Semipermanent/Seasonal; Z Intermittently Exposed/Permanent; W Intermittently Flooded/Temporary

WATER CHEMISTRY

Coastal Salinity: 1 Hyperhaline; 2 Euhaline; 3 Mixohaline (Brackish); 4 Polyhaline; 5 Mesohaline; 6 Oligohaline; 0 Fresh

Inland Salinity: 7 Hypersaline; 8 Eusaline; 9 Mixosaline; 0 Fresh

pH Modifiers for all Fresh Water: a Acid; c Circumneutral; i Alkaline

SOIL

s Organic; m Mineral

SPECIAL MODIFIERS

b Beaver; d Partially Drained/Ditched; f Farmed; h Diked/Impounded; r Artificial; x Spoil; e Excavated

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SPECIAL NOTE

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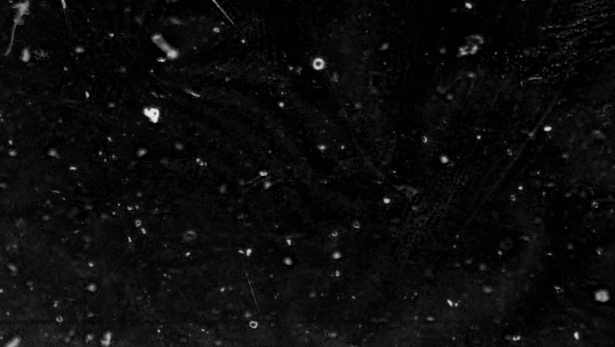

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SALISBURY - NW (SEAFORD)

RIDGELY	DENTON	BRASSVILLE	HARRINGTON	MILFORD	MISPILLION RIVER		
NW			NC			NE	
BOWLING CREEK	HOBBS	HICKMAN	GREENWOOD	ELLENDALE	MILTON	LEWES	CAPE HENLOPEN
PRESTON	FEDERALSBURG	SEAFORD WEST	SEAFORD EAST	GEORGETOWN	HARBESON	FAIRMOUNT	REHOBOTH BEACH
SW			SC			SE	
EAST NEW MARKET	RHODESDALE	SHARPTOWN	LAUREL	TRAP POND	MILLSBORO	FRANKFORD	BETHANY BEACH

AF 18064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

FOWLING CREEK, MD.

1 SL8-8

Griffin

Lewistown

Matthews

Kingston Landing

Providence

Newton

Wings Landing

Gilpin Point

Ganey Wharf

Harmony

CHOPTANK RIVER

FUCKAHOE CREEK

SALISBURY NW
SEAFORD

FOWLING CREEK, MD

AERIAL PHOTO 4/81

SCALE 1:24,000

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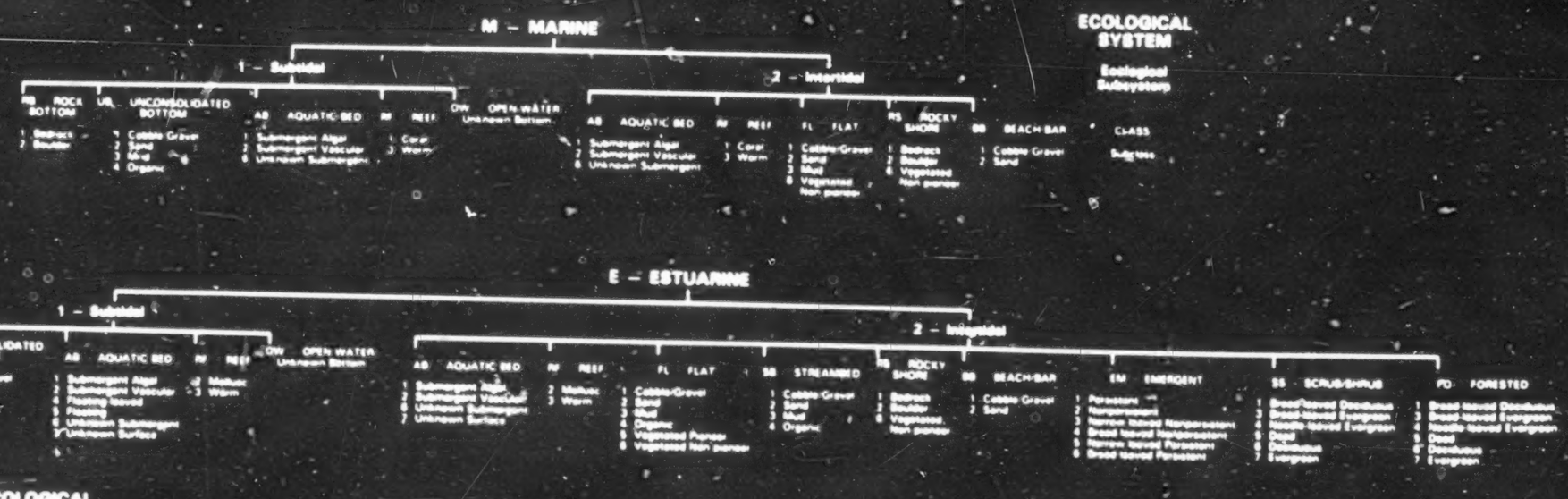

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WATER REGIME(1)		WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal Salinity	Inland Salinity		
A Temporary	H Permanent	1 Hypersaline	7 Hypersaline	B Organic	b Beaver
B Saturated	J Intermittently Flooded	2 Eusaline	8 Eusaline	C Mineral	d Partially Drained/Ditched
C Seasonal	K Artificial	3 Mixosaline (Brackish)	9 Mixosaline		f Farmed
D Seasonal Well-drained	L Intermittent, Exposed/Permanent	4 Polysaline	0 Fresh		h Diked/Impounded
E Seasonal Saturated	M Semipermanently Flooded/Temporary	5 Mesohaline			r Artificial
F Semipermanent	N Semipermanent/Intermittent/Seasonal	6 Oligohaline			s Spoil
G Intermittently Exposed	U Unknown	0 Fresh			x Excavated
					z Unknown

A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	K Artificial	M Irregularly Exposed	T Permanent Tidal
D Seasonal Well-drained	L Intermittent, Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	M Semipermanently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	N Semipermanent/Intermittent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS	
Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water			
1 Hypersaline	7 Hypersaline	a Acid	B Organic	b Beaver	h Diked/Impounded
2 Eusaline	8 Eusaline	c Circumneutral	C Mineral	d Partially Drained/Ditched	r Artificial
3 Mixosaline (Brackish)	9 Mixosaline	i Alkaline		f Farmed	s Spoil
4 Polysaline	0 Fresh				x Excavated
5 Mesohaline					
6 Oligohaline					
0 Fresh					

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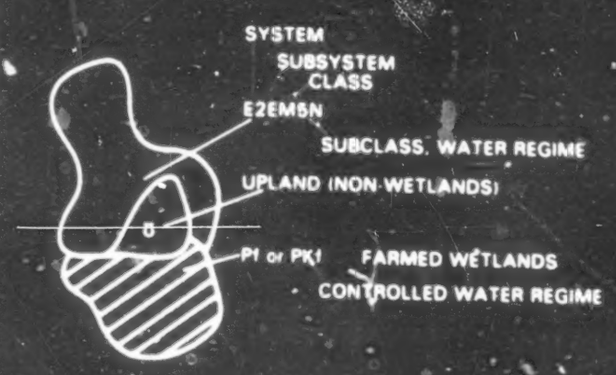

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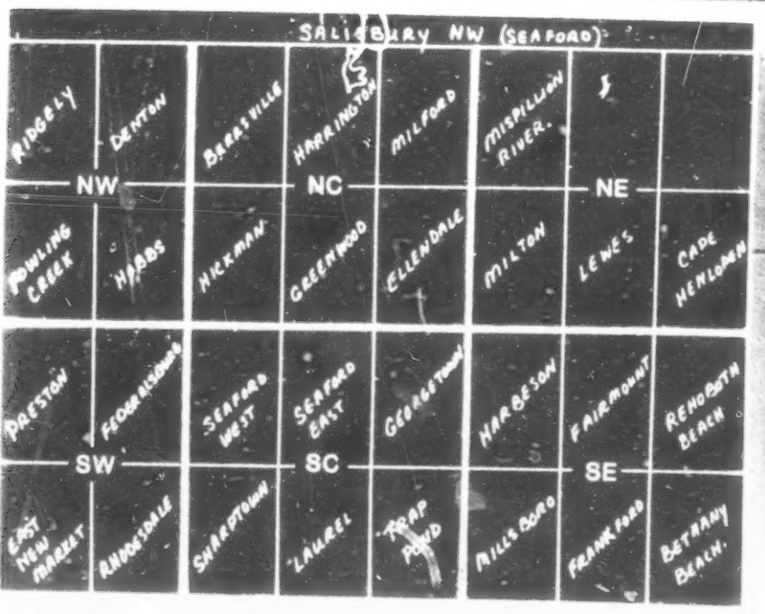

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

HOBBS, MD.

I-SL6-14

SALISBURY NW

SEAFORD

HOBBS, MD.

AERIAL PHOTO 3/82

SCALE 1:24 000

WETLAND LEGEND

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M — MARINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 — Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED		RF REEF	OW OPEN WATER Unknown Bottom	
1 Bedrock	1 Cobble-Gravel		1 Submergent Algal		2 Mollusc		
2 Boulder	2 Sand		2 Submergent Vascular		3 Worm		
	3 Mud		4 Floating-leaved				
	4 Organic		5 Floating				
			6 Unknown Submergent				
			7 Unknown Surface				

2 — Intertidal

AB AQUATIC BED		RF REEF		FL FLAT		RS ROCKY SHORE		BB BEACH/BAR		OW OPEN WATER Unknown Bottom	
1 Submergent Algal		2 Mollusc		1 Cobble/Gravel		1 Bedrock		1 Cobble-Gravel			
2 Submergent Vascular		3 Worm		2 Sand		2 Boulder		2 Sand			
6 Unknown Submergent				3 Mud		6 Vegetated Non pioneer					
				4 Organic							
				5 Vegetated Pioneer							
				6 Vegetated Non pioneer							

E — ESTUARINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 — Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED		RF REEF	OW OPEN WATER Unknown Bottom	
1 Bedrock	1 Cobble/Gravel		1 Submergent Algal		2 Mollusc		
2 Boulder	2 Sand		2 Submergent Vascular		3 Worm		
	3 Mud		4 Floating-leaved				
	4 Organic		5 Floating				
			6 Unknown Submergent				
			7 Unknown Surface				

2 — Intertidal

AB AQUATIC BED		RF REEF		FL FLAT		SB STREAMBED		RS ROCKY SHORE		BB BEACH/BAR	
1 Submergent Algal		2 Mollusc		1 Cobble/Gravel		1 Cobble-Gravel		1 Bedrock		1 Cobble-Gravel	
2 Submergent Vascular		3 Worm		2 Sand		2 Sand		2 Boulder		2 Sand	
6 Unknown Submergent				3 Mud		3 Mud		6 Vegetated Non pioneer			
7 Unknown Surface				4 Organic		4 Organic					
				5 Vegetated Pioneer							
				6 Vegetated Non pioneer							

EM EMERGENT		SS SCRUB-SHRUB		FO FORESTED	
1 Persistent		1 Broad-leaved Deciduous		1 Broad-leaved Deciduous	
2 Nonpersistent		2 Broad-leaved Evergreen		2 Broad-leaved Evergreen	
3 Narrow-leaved Nonpersistent		3 Needle-leaved Evergreen		3 Needle-leaved Evergreen	
4 Broad-leaved Nonpersistent		4 Dead		4 Dead	
5 Narrow-leaved Persistent		5 Deciduous		5 Deciduous	
6 Broad-leaved Persistent		7 Evergreen		6 Evergreen	

R — RIVERINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 — Tidal

EM EMERGENT(1)		RB ROCK BOTTOM		UB UNCONSOLIDATED BOTTOM			
2 Nonpersistent		1 Bedrock		1 Cobble/Gravel			
3 Narrow-leaved Nonpersistent		2 Boulder		2 Sand			
4 Broad-leaved Nonpersistent				3 Mud			
				4 Organic			

2 — Lower Perennial

AB AQUATIC BED				FL FLAT			
1 Submergent Algal				1 Cobble/Gravel			
2 Submergent Vascular				2 Sand			
3 Submergent Moss				3 Mud			
4 Floating-leaved				4 Organic			
5 Floating				5 Vegetated Pioneer			
6 Unknown Submergent				6 Vegetated Non pioneer			
7 Unknown Surface							

3 — Upper Perennial

AB AQUATIC BED				FL FLAT			
1 Submergent Algal				1 Cobble/Gravel			
2 Submergent Vascular				2 Sand			
3 Submergent Moss				3 Mud			
4 Floating-leaved				4 Organic			
5 Floating				5 Vegetated Pioneer			
6 Unknown Submergent				6 Vegetated Non pioneer			
7 Unknown Surface							

4 — Intermittent

SB STREAMBED		RS ROCKY SHORE		BB BEACH/BAR		OW OPEN WATER Unknown Bottom	
1 Cobble/Gravel		1 Bedrock		1 Cobble/Gravel			
2 Sand		2 Boulder		2 Sand			
3 Mud							
4 Organic							

5 — Unknown Perennial

(1) EM — EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L — LACUSTRINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 — Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED			OW OPEN WATER Unknown Bottom	
1 Bedrock	1 Cobble/Gravel		1 Submergent Algal				
2 Boulder	2 Sand		2 Submergent Vascular				
	3 Mud		3 Submergent Moss				
	4 Organic		4 Floating-leaved				
			5 Floating				
			6 Unknown Submergent				
			7 Unknown Surface				

2 — Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED		FL FLAT		RS ROCKY SHORE		BB BEACH/BAR		OW OPEN WATER Unknown Bottom
1 Bedrock	1 Cobble/Gravel		1 Submergent Algal		1 Cobble/Gravel		1 Bedrock		1 Cobble-Gravel		
2 Boulder	2 Sand		2 Submergent Vascular		2 Sand		2 Boulder		2 Sand		
	3 Mud		3 Submergent Moss		3 Mud						
	4 Organic		4 Floating-leaved		4 Organic						
			5 Floating		5 Vegetated Pioneer						
			6 Unknown Submergent		6 Vegetated Non pioneer						
			7 Unknown Surface								

EM EMERGENT	
2 Nonpersistent	
1 Narrow-leaved Nonpersistent	
4 Broad-leaved Nonpersistent	

P — PALUSTRINE

ECOLOGICAL SYSTEM — No Subsystem — CLASS — Subclass

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED		FL FLAT		ML MOSS LICHEN		EM EMERGENT		SS SCRUB-SHRUB		FO FORESTED		OW OPEN WATER Unknown Bottom
1 Bedrock	1 Cobble/Gravel		1 Submergent Algal		1 Cobble/Gravel		1 Moss		1 Persistent		1 Broad-leaved Deciduous		1 Broad-leaved Deciduous		
2 Boulder	2 Sand		2 Submergent Vascular		2 Sand		2 Lichen		2 Nonpersistent		2 Needle-leaved Deciduous		2 Broad-leaved Evergreen		
	3 Mud		3 Submergent Moss		3 Mud				3 Narrow-leaved Nonpersistent		3 Broad-leaved Evergreen		3 Needle-leaved Deciduous		
	4 Organic		4 Floating-leaved		4 Organic				4 Broad-leaved Nonpersistent		4 Needle-leaved Evergreen		4 Needle-leaved Evergreen		
			5 Floating		5 Vegetated Pioneer				5 Narrow-leaved Persistent		5 Dead		5 Dead		
			6 Unknown Submergent		6 Vegetated Non pioneer				6 Broad-leaved Persistent		6 Deciduous		6 Deciduous		
			7 Unknown Surface								7 Evergreen		7 Evergreen		

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

A Temporary	H Permanent		
B Saturated	J Intermittently Flooded		
C Seasonal	K Artificial		
D Seasonal Well-drained	Z Intermittent, Exposed/Permanent		
E Seasonal Saturated	W Intermittently Flooded/Temporary		
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

Tidal

L Artificial		R Seasonal Tidal	
M Subtidal		S Temporary Tidal	
N Irregularly Exposed		T Semipermanent Tidal	
P Regular		V Permanent Tidal	
Q Irregular		U Unknown	

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	4 Acid
2 Eusaline	8 Eusaline	5 Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	6 Alkaline
4 Polyhaline	0 Fresh	
8 Mixohaline		
9 Oligohaline		
0 Fresh		

SOIL

8	Organic
9	Mineral

SPECIAL MODIFIERS

b Beaver		h Diked/Impounded	
d Partially Drained/Ditched		k Artificial	
f Farmed		s Spoil	
		r Excavated	

(1) Information on the water regime modifiers found on this legend, but not found in this classification system, may be obtained from the above listed source.

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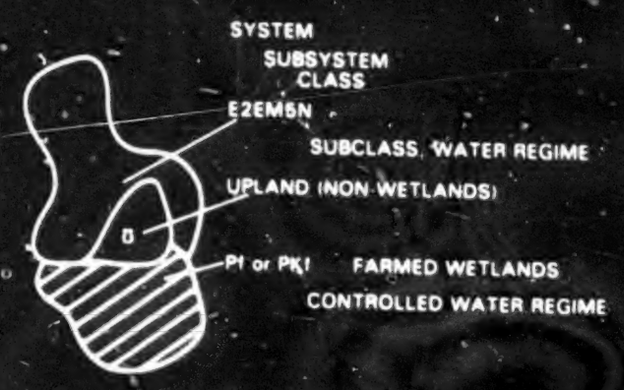
SYMBOLOGY EXAMPLE



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SALISBURY NW (SEAFORD)

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

BURRSVILLE, DEL.- MD.

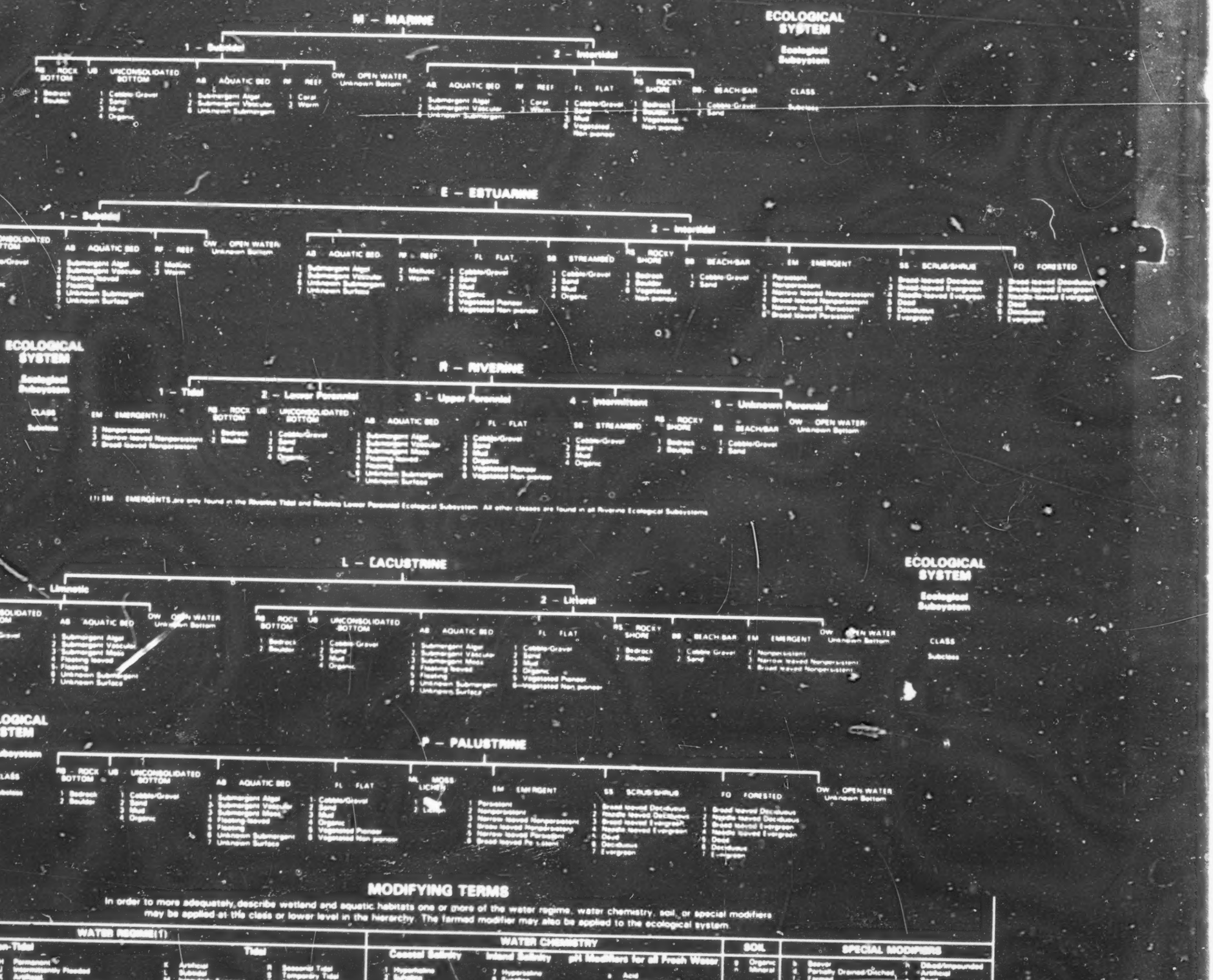
SALISBURY NW
SEAFORD

SCALE 1:24000

BURRSVILLE, DEL.-MD.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal		Tidal			
A Temporary	H Permanent	K Artificial		R Seasonal Tidal	
B Saturated	J Intermittently Flooded	L Artificial		S Temporary Tidal	
C Seasonal	Artificial	M Intermittently Exposed		T Permanent Tidal	
D Seasonal Well-drained	Intermittently Exposed/Permanent	N Permanent		U Unknown	
E Seasonal Saturated	Intermittently Flooded/Temporary	P Intertidal			
F Semipermanent	Saturated/Semipermanent/Seasonal				
G Intermittently Exposed	U Unknown				

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Eusaline	8 Eusaline	i Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	t Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

9	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

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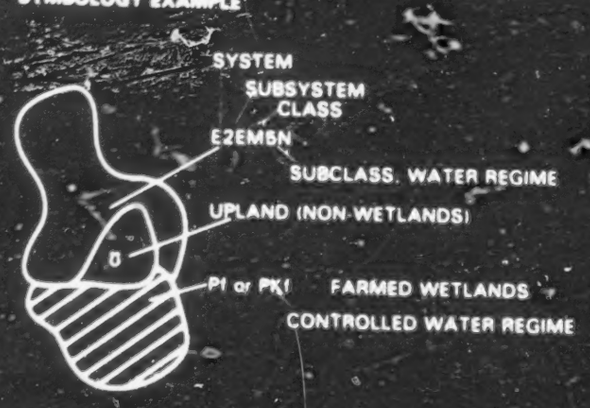

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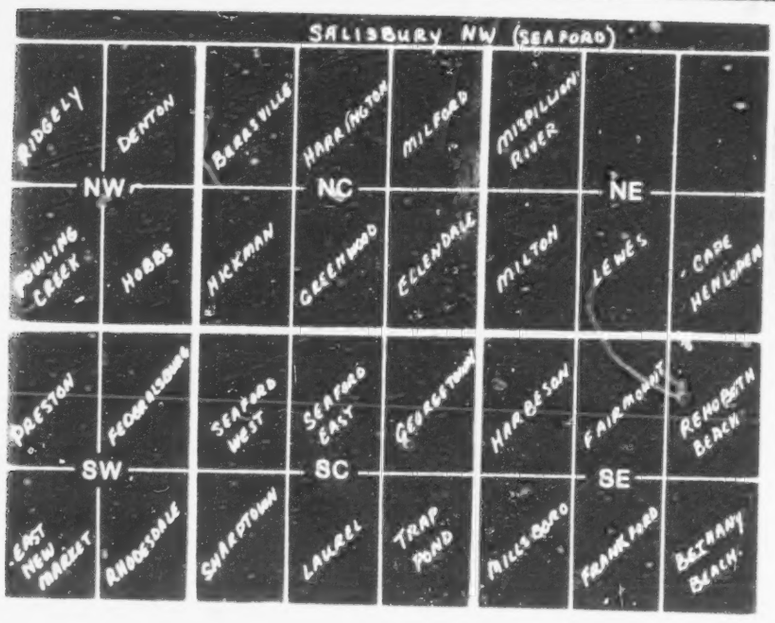

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

HARRINGTON, DEL

ISLS-17

SALISBURY NW
SEAFORD

A/P 4/81

HARRINGTON DEL

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

1 – Subtidal

2 – Intertidal

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface, 8 Unknown Surface
RF REEF: 2 Mollusc, 3 Worm
CR CORAL: 1 Coral
OW OPEN WATER: Unknown Bottom
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
BB BEACH/BAR: 1 Cobble-Gravel, 2 Sand
EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

E – ESTUARINE

1 – Subtidal

2 – Intertidal

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface, 8 Unknown Surface
RF REEF: 2 Mollusc, 3 Worm
OW OPEN WATER: Unknown Bottom
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
BB BEACH/BAR: 1 Cobble-Gravel, 2 Sand
EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal
2 – Lower Perennial
3 – Upper Perennial
4 – Intermittent
5 – Unknown Perennial

EM EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
SB STREAMBED: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
RS ROCKY SHORE: 1 Bedrock, 2 Boulder
BB BEACH/BAR: 1 Cobble-Gravel, 2 Sand
OW OPEN WATER: Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

1 – Limnetic

2 – Littoral

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface, 8 Unknown Surface
OW OPEN WATER: Unknown Bottom
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
RS ROCKY SHORE: 1 Bedrock, 2 Boulder
BB BEACH/BAR: 1 Cobble-Gravel, 2 Sand
EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble-Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
ML MOSS LICHEN: 1 Moss, 2 Lichen
EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- Artificial
- Intermittently Exposed/Permanent
- Y Intermittently Flooded/Temporary
- Z Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- h Alkaline

SOIL
- q Organic
- r Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- i Artificial
- s Spoil
- x Excavated

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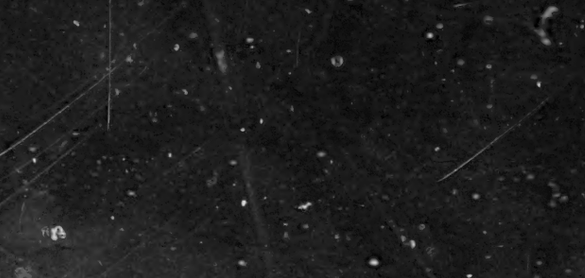

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SALISBURY NW (SEAFORD)

RIDGELY	DENTON	BARRSVILLE	HARRINGTON	MILFORD	MISPILLION RIVER		
NW			NC			NE	
POWLING CREEK	HOBBS	HICKMAN	GREENWOOD	ELLENDALE	MILTON	LEWES	CAPE HENLOPEN
PRESTON	FEDERALSBURG	SEAFORD WEST	SEAFORD EAST	GEORGETOWN	HARBESON	FAIRMOUNT	REHOBOTH BEACH
SW			SC			SE	
EAST NEW MARKET	RHODESDALE	SHARPTOWN	LAUREL	TRAP POND	MILLSBORO	FRANKFORD	BETHANY BEACH

AF 14084C D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

MILFORD, DEL

1-SLS-6

DISTRICT NO 8

DISTRICT NO 10

DISTRICT 01

RIVER

Swamp

Creek

Branch

Pond

Lake

Church Hill Village

Houston

Lynch Heights

Spring Hill

Jenkins Pond

Millpond

Haven Lake

Blairs Pond

Abbotts Pond

Marshall Millpond

Mt Hurst Air Park

Radio Station (WASB)

Radio Towers

I O O F Cemetery

High Sch

Cem

Gravel Pit

Grave Pt

Fork Landing

Tank

Tramroad

PENNSYLVANIA

MARYLAND

DELAWARE

SALISBURY NW

SEAFORD

MILFORD

SCALE 1:24000

AERIAL PHOTO 4/81

38°52'30"

75°22'30"

7

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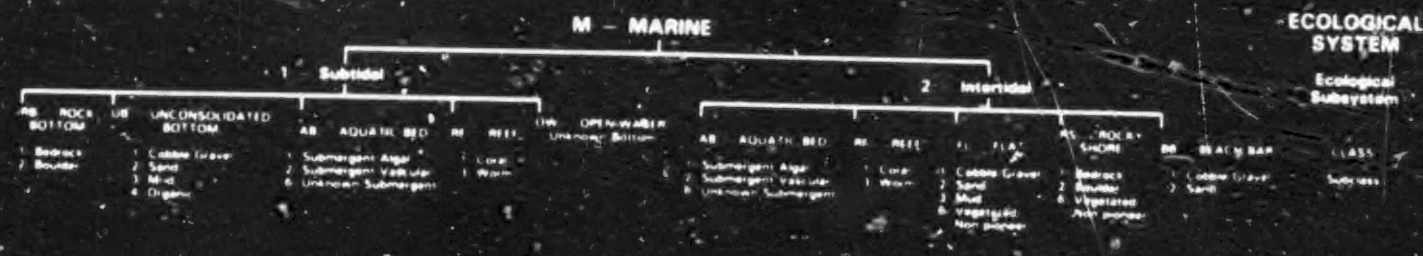

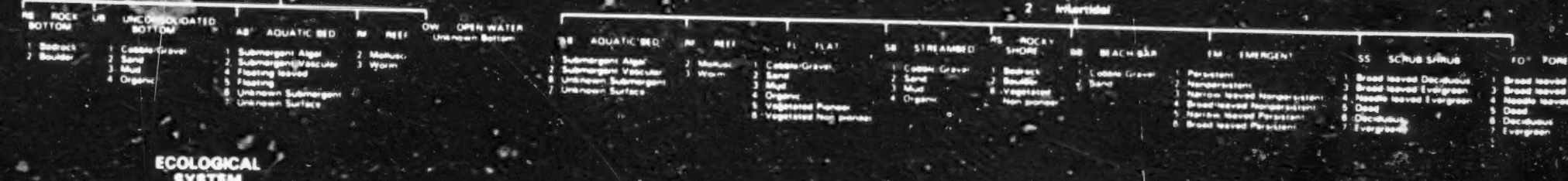

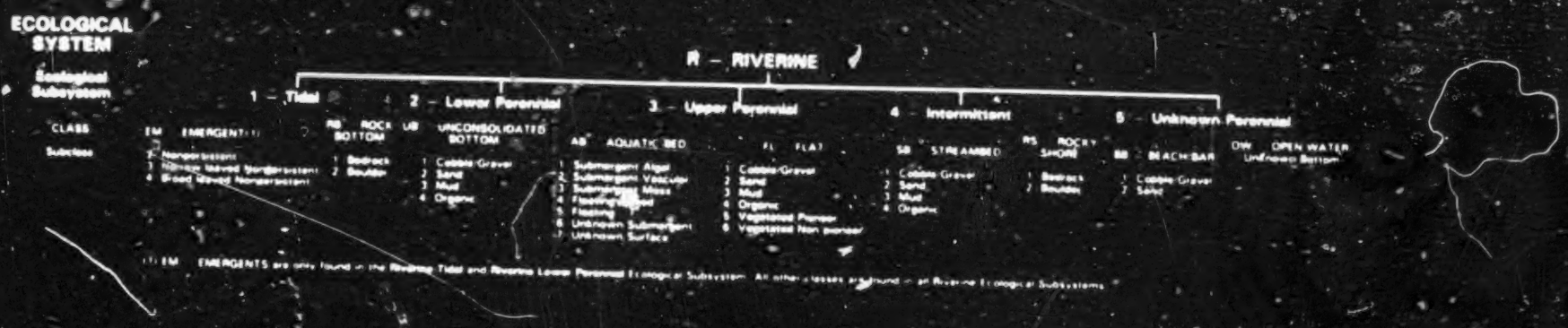

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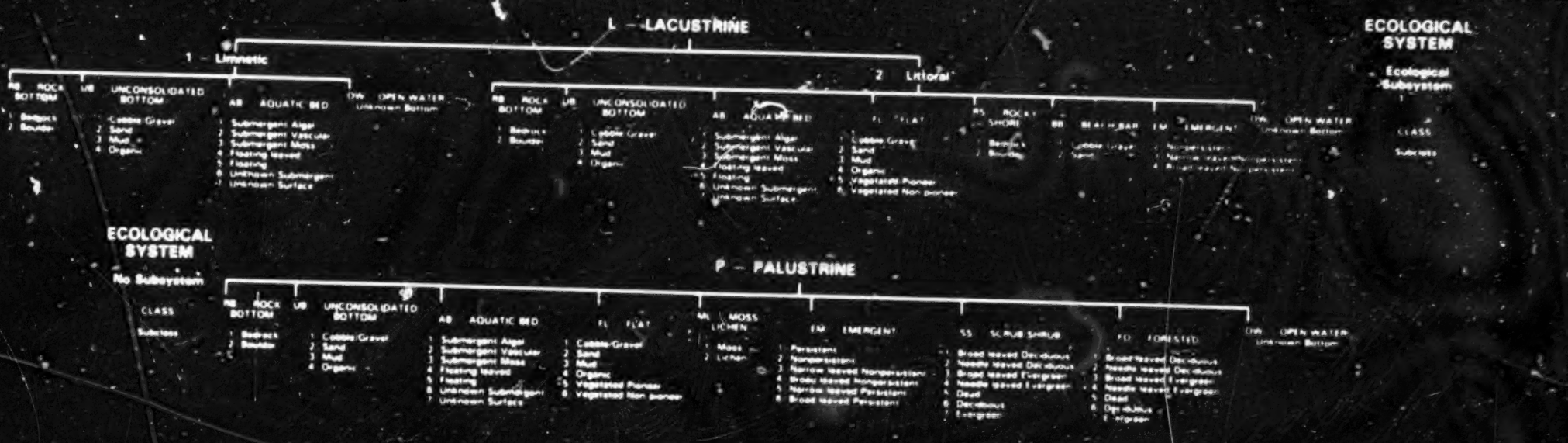

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WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal

- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
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- V Permanent Tidal
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- c Circumneutral
- i Alkaline

SOIL

- g Organic
- m Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
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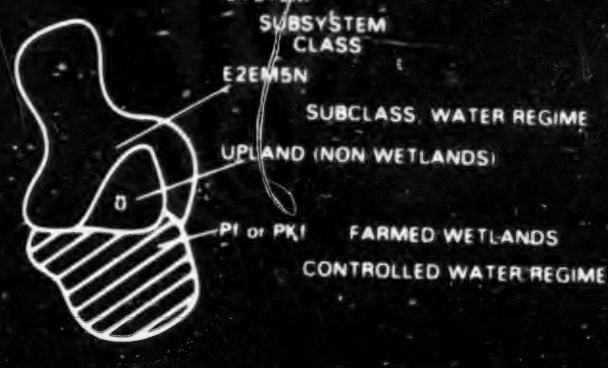

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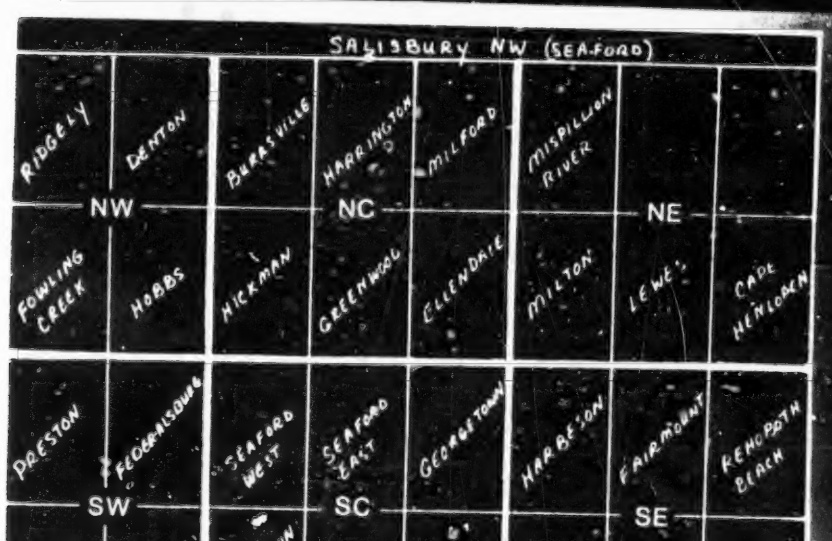

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

HICKMAN, DEL.-MD.

ISLS-4

Gum Island
Andrewsville
Big Pine
Hickman
Blanchard
Smithville
Woodenhawk
Dublin Hill
DISTRICT NO 2
PFO1A
PFO1C
PFO1Ad
PFO4/1A
PFO4/1Ad
PFO1/4A
PFO1/4Ad
PFO4/1J
PFO1/4J
PFO1Jd
PFO1Cd
PFO1Ed
PFO1/4C
PFO1E
PEM5A
PEM5C
R2OWZx
POWZx
POWFx
POWN
POWF
LIOWHh
R2OWZ
R2OWZd
PFO1Ad
PFO1/4Ad
PFO1Ad
PFO1/4A
PFO1/4J
PFO1J
PFO1C
PFO1Ad
R2OWZx
POWZx
PFO1A
PFO1/4A
PFO1Ad
R2OWZx
PFO1A
PFO1E
PFO1A
PFO1A
PFO1C
POWZx
POWN
PFO1Ad
PFO1Ad
PFO1Ad
PFO1C
PFO1A
PFO1/4A
PFO1Ad
POWZx
PFO1A
PFO1/4A
PFO1/4J
PFO1A
PFO1/4J
PFO1/4J
PFO1A
PFO1C
PFO1Ad
PFO1Ad
R2OWZx
PFO1C
PFO1A
POWZx
PFO1A
PFO1/4A
PFO1C
PFO1A
PFO1J
PFO1A
PFO1A
PFO1A
PFO1A
PFO1Ad
PFO1Ad
R2OWZ
PFO1Ad
PFO1Ad
R2OWZ
PFO1A
PFO1C
PFO1A
PFO1A
PFO1A
PFO1A
PFO1C
PFO1A
PFO1Ad
PFO1Ad
R2OWZx
POWZx
PFO1/4A
PFO1A
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PFO1C
PFO1A
PFO1A
PFO1C
PFO1A
PFO1A
PFO1A
PFO1A

WETLAND LEGEND

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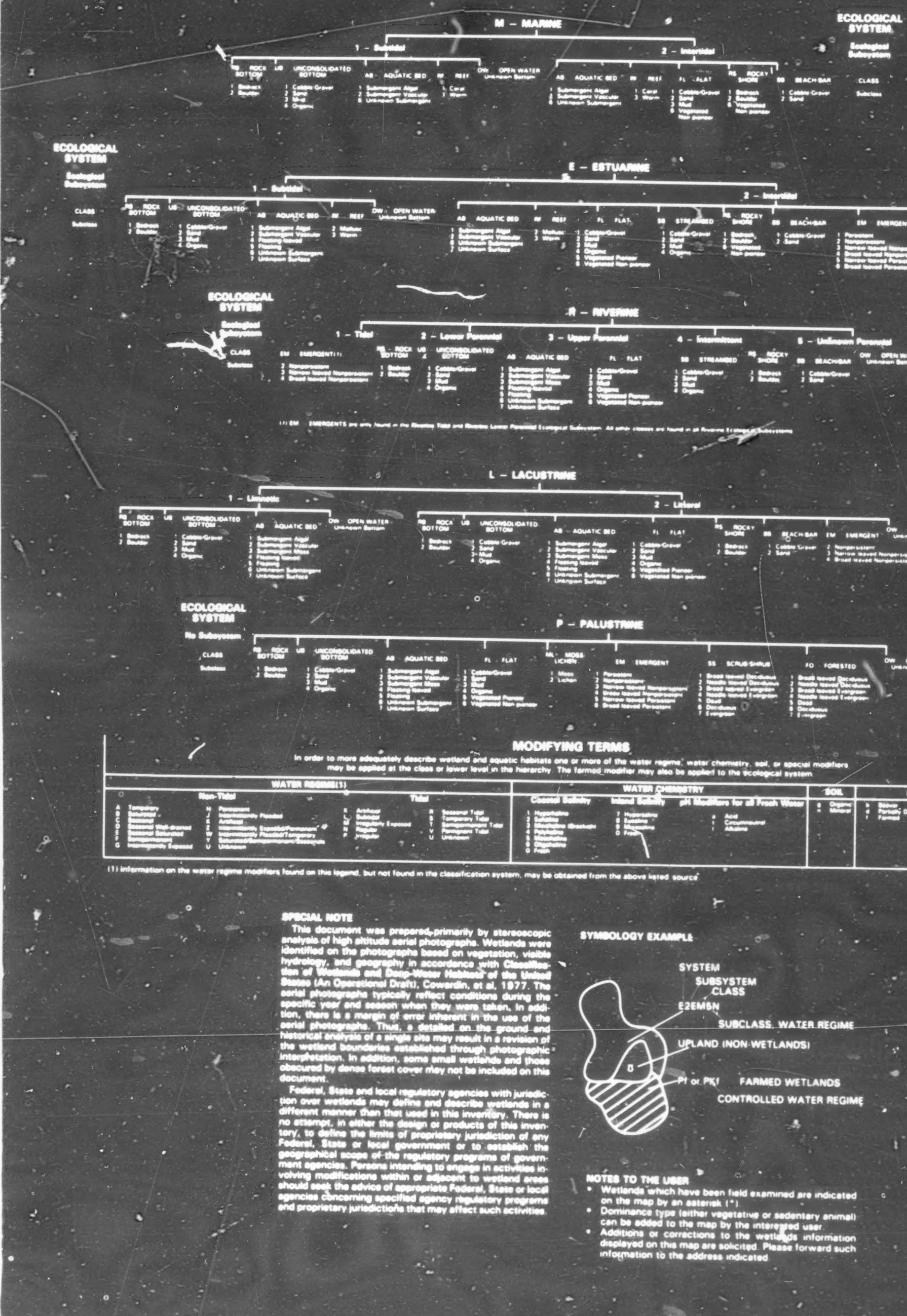

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed

Tidal
- H Permanent
- J Intermittently Flooded
- K Artificial
- L Intermittently Exposed/Permanent
- M Intermittently Flooded/Temporary
- N Semipermanent/Seasonal/Permanent/Episodic
- P Regularly Flooded
- U Unknown

Tidal
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- 4 Acid
- 5 Circumneutral
- 6 Alkaline

SOIL
- 8 Organic
- 9 Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- k Artificial
- r Spoil
- s Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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SYMBOLOGY EXAMPLE

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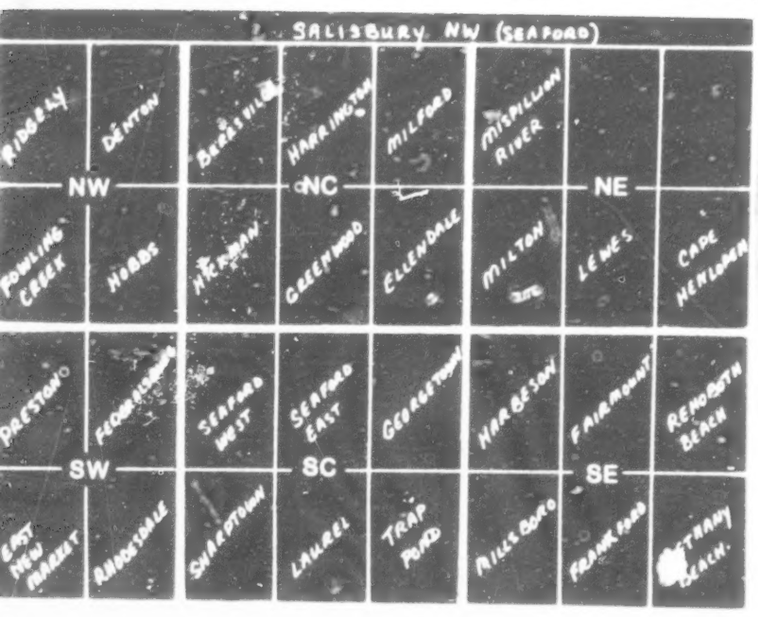
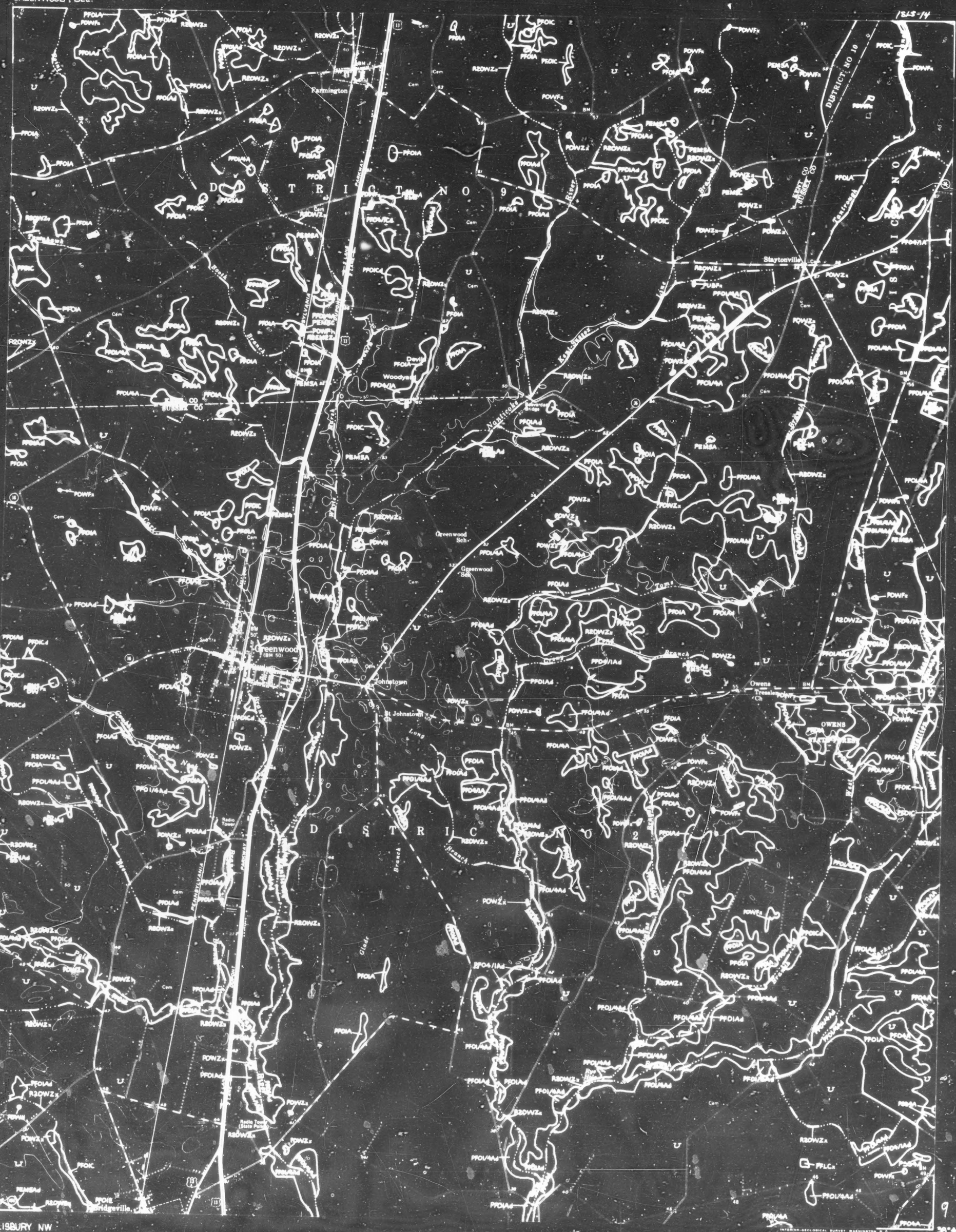


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

GREENWOOD, DEL.

1845-14



SALISBURY NW

SEAFORD

SCALE 1:24000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

INTERIOR-GEOLOGICAL SURVEY WASHINGTON D.C.

38°45'

75°30'

A/P 4/81

GREENWOOD, DEL.

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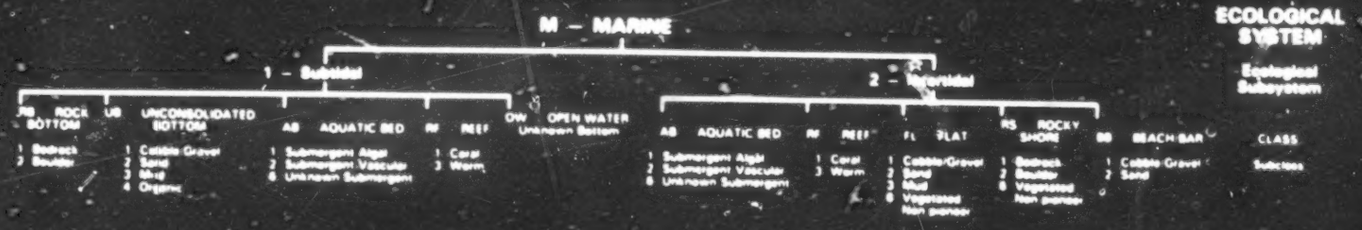

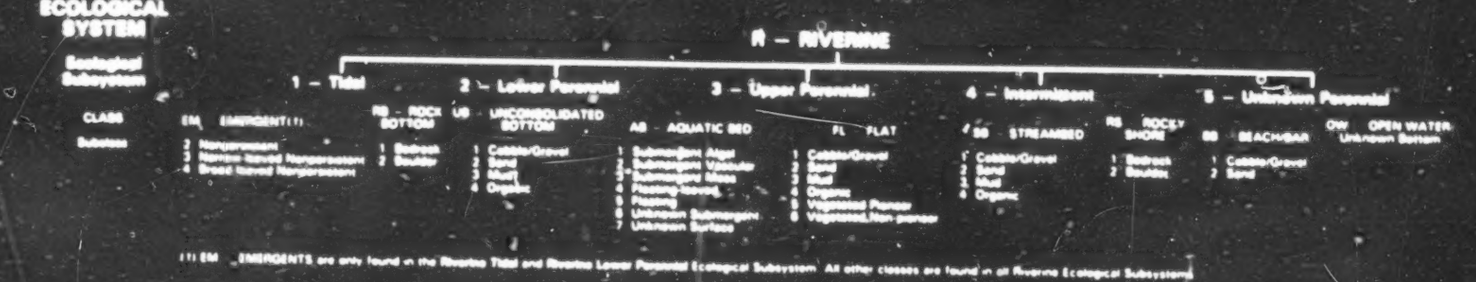

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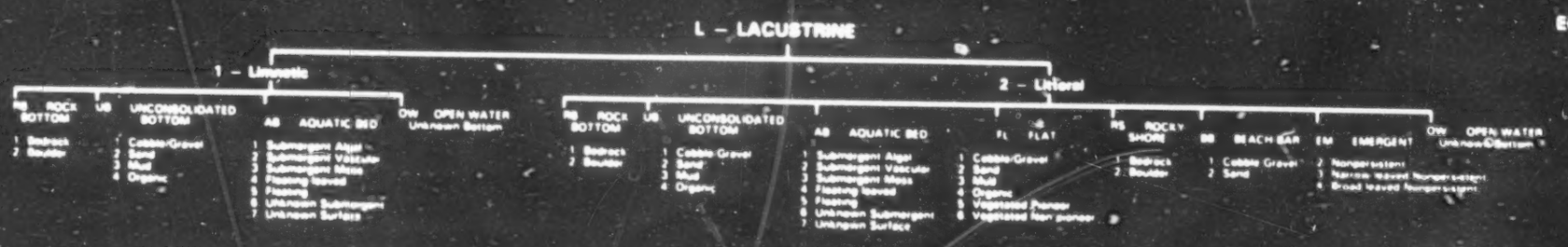

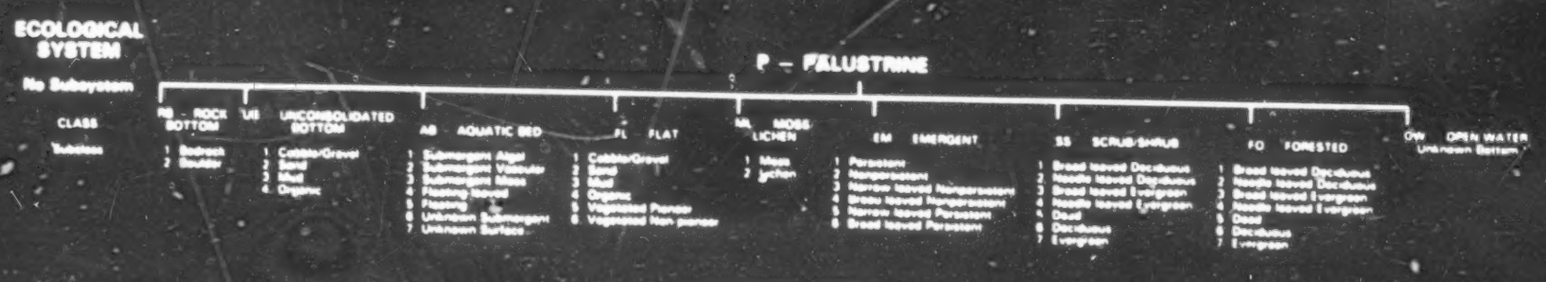

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WATER REGIME(1)

	Non-Tidal		Tidal	
A	Temporarily Flooded	H Permanent	K Artificial	R Seasonal Tidal
B	Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C	Seasonal	Artificial	M Irregularly Exposed	T Semipermanent Tidal
D	Seasonal Well-drained	Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E	Seasonal Saturated	Intermittently Flooded/Temporary	P Irregular	U Unknown
F	Semipermanent	Saturated/Semipermanent/Seasonal		
G	Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hypersaline	2 Hypersaline	a Acid
2 Eusaline	3 Eusaline	c Circumneutral
3 Mixohaline (Brackish)	4 Mixohaline	i Alkaline
4 Polysaline	0 Fresh	
5 Mixohaline		
6 Oligohaline		
0 Fresh		

SOIL

0	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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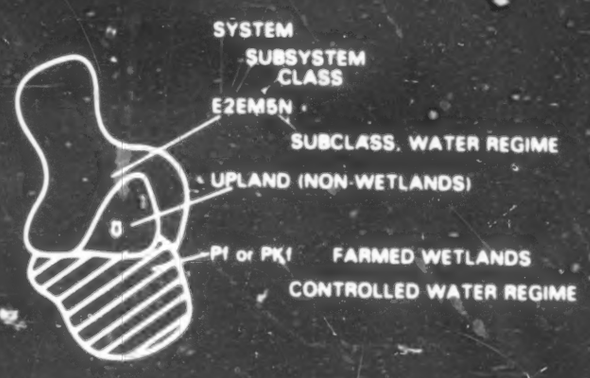
SYMBOLOGY EXAMPLE



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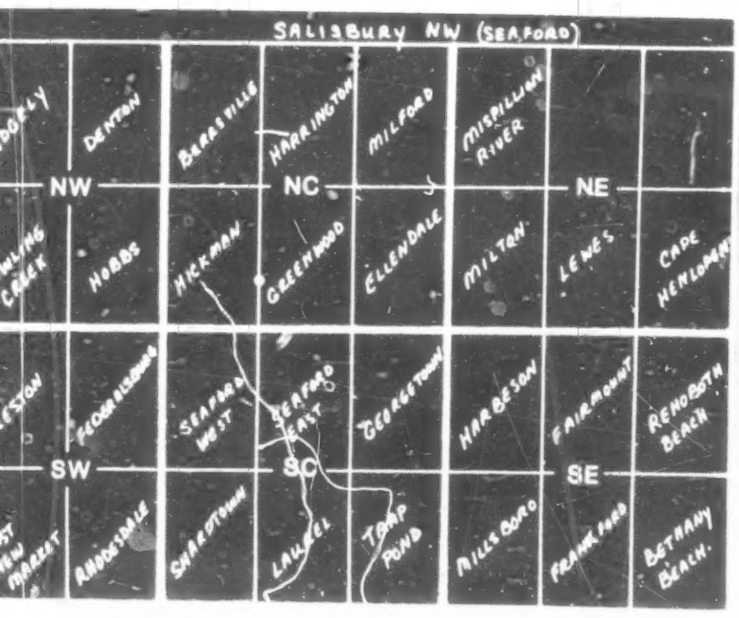

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

ELLENDALE, DEL.

SALISBURY NW
SEAFORD

ELLENDALE, DEL.

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

10

38°45

75°22.30

AERIAL PHOTO YR1

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions

M – MARINE

1 Subtidal

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF REEF
1 Coral
3 Worm

OW OPEN WATER
Unknown Bottom

2 Intertidal

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF REEF
1 Coral
3 Worm

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
6 Vegetated Non-pioneer

RS ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non-pioneer

BB BEACH BAR
1 Cobble-Gravel
2 Sand

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

E – ESTUARINE

1 – Subtidal

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
4 Floating-leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

RF REEF
2 Mollusc
3 Worm

OW OPEN WATER
Unknown Bottom

2 – Intertidal

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent
7 Unknown Surface

RF REEF
2 Mollusc
3 Worm

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

SB STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non-pioneer

BB BEACH BAR
1 Cobble-Gravel
2 Sand

EM EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent
5 Narrow-leaved Persistent
6 Broad-leaved Persistent

SS SCRUB-SHRUB
1 Broad-leaved Deciduous
3 Broad-leaved Evergreen
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

FO FORESTED
1 Broad-leaved Deciduous
3 Broad-leaved Evergreen
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

R – RIVERINE

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

EM EMERGENT(1)
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating-leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

SB STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS ROCKY SHORE
1 Bedrock
2 Boulder

BB BEACH BAR
1 Cobble-Gravel
2 Sand

OW OPEN WATER
Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

1 – Limnetic

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating-leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

OW OPEN WATER
Unknown Bottom

2 Littoral

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating-leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

RS ROCKY SHORE
1 Bedrock
2 Boulder

BB BEACH BAR
2 Sand

EM EMERGENT
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent

OW OPEN WATER
Unknown Bottom

P – PALUSTRINE

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating-leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

ML MOSS-LICHEN
4 Moss
5 Lichen

EM EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent
5 Needle-leaved Persistent
6 Broad-leaved Persistent

SS SCRUB-SHRUB
1 Broad-leaved Deciduous
2 Needle-leaved Deciduous
3 Broad-leaved Evergreen
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

FO FORESTED
1 Broad-leaved Deciduous
2 Needle-leaved Deciduous
3 Broad-leaved Evergreen
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

OW OPEN WATER
Unknown Bottom

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- V Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown
- Z Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mesohaline (Brackish)
- 4 Polyhaline
- 5 Mixohaline
- 6 Oligohaline
- 7 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mesosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- c Circumneutral
- i Alkaline

SOIL
- o Organic
- n Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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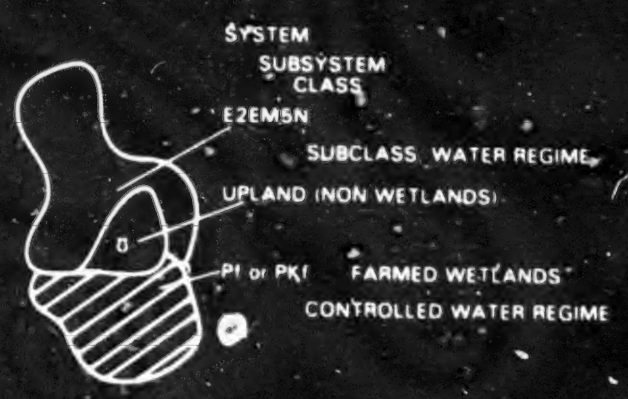

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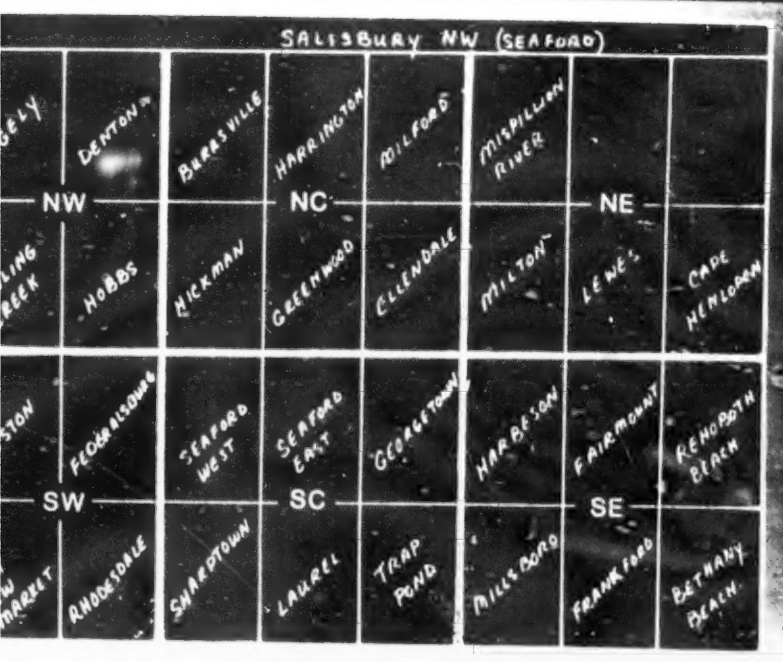

AF 18064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

MISPILLION RIVER, DEL.

1-515-9

SALISBURY NW
SEAFORD

SCALE 1:24000

MISPILLION RIVER, DEL.

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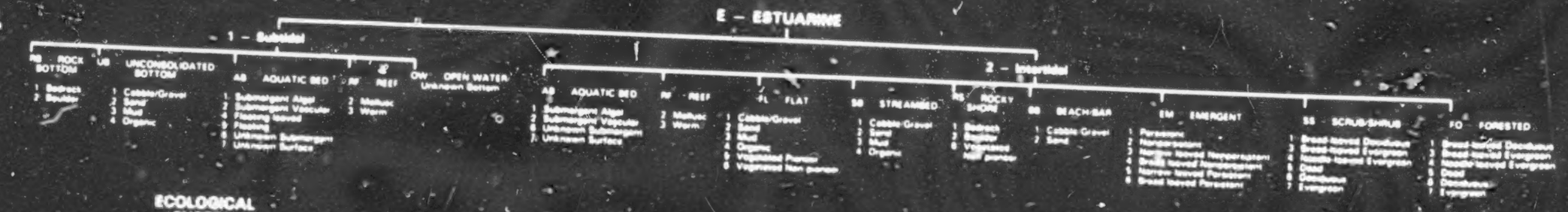

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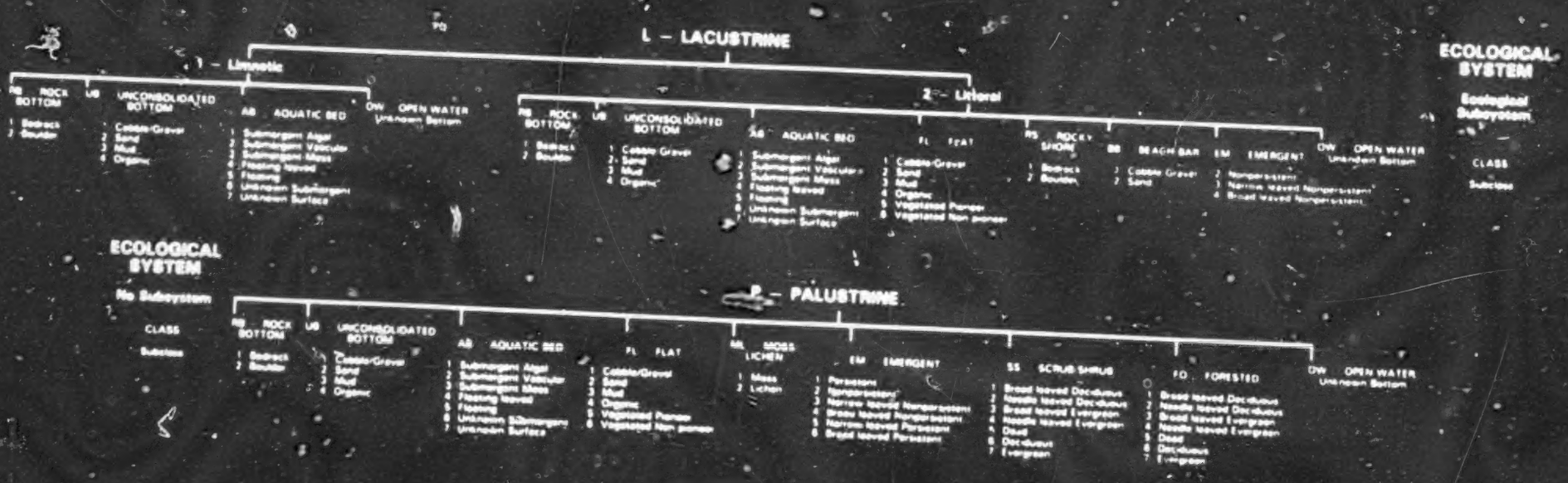

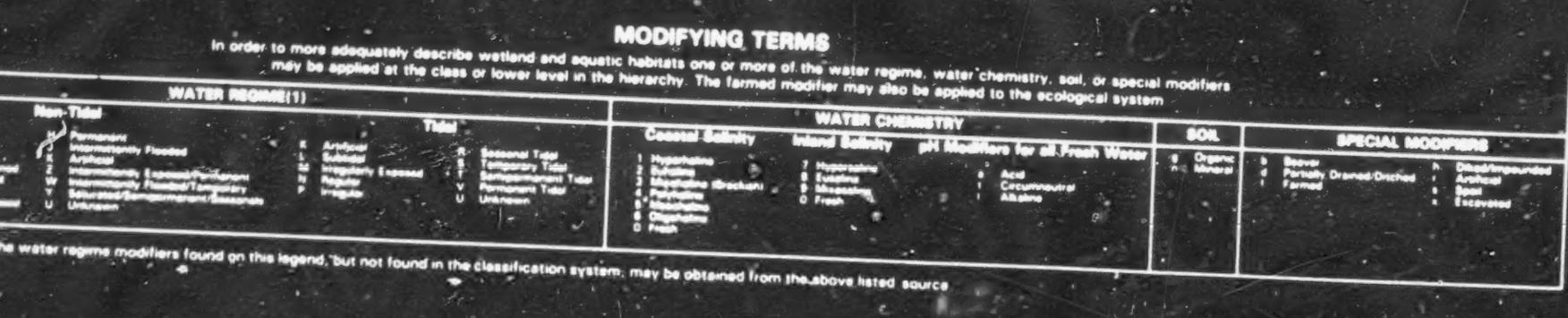

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- K Artificial
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- M Intermittently Flooded/Temporary
- N Saturated/Semipermanent/Seasonal
- P Regularly Flooded
- R Seasonal Tidal
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- 6 Oligohaline
- 0 Fresh

Inland Salinity
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- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

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- i Circumneutral
- i Alkaline

SOIL
- q Organic
- r Mineral

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- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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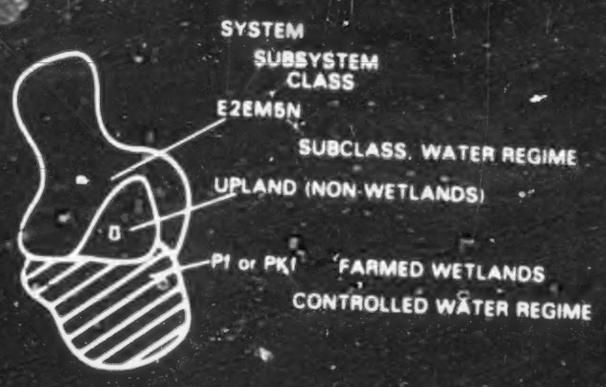
SYMBOLOGY EXAMPLE



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NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

1-875-B

MILTON, DEL.

SLAUGHTER DISTRICT

BROADKILL NECK

PRIMEHOOK NECK

PIKES NECK

CAVE NECK

NO 10 DISTRICT

DRAPER BENNETTS DITCH

Jefferson Crossroads

Slaughter Neck

Buggy Hill

Primehook Beach

Lighthouse

Broadkill Beach

Bayside

Hazard Com

Bethel Com

Milton

Bethel

Broadkill Rd

Milton-Lincoln Rd

Milton-Ellendale Hwy

Milton-Bethel Rd

Milton-Broadkill Rd

Milton-Harbeson Rd

Milton-Slaughter Neck Rd

Milton-Lewes Rd

Milton-Harbeson Rd

Milton-Broadkill Rd

Milton-Ellendale Hwy

Milton-Bethel Rd

Milton-Lincoln

WETLAND LEGEND

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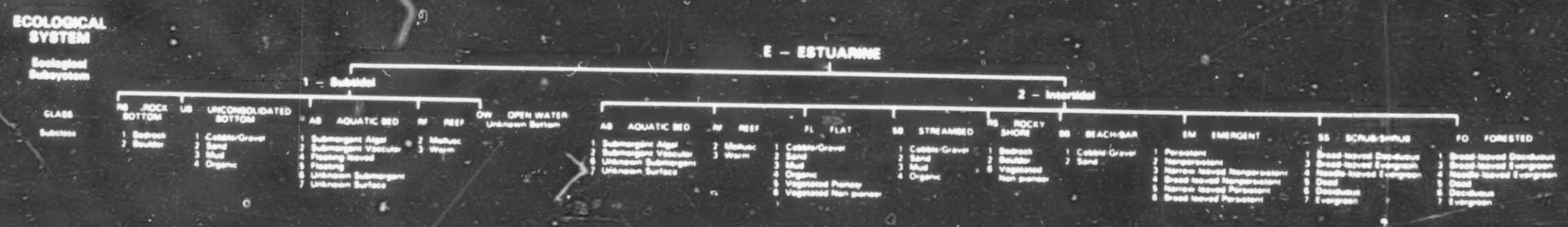

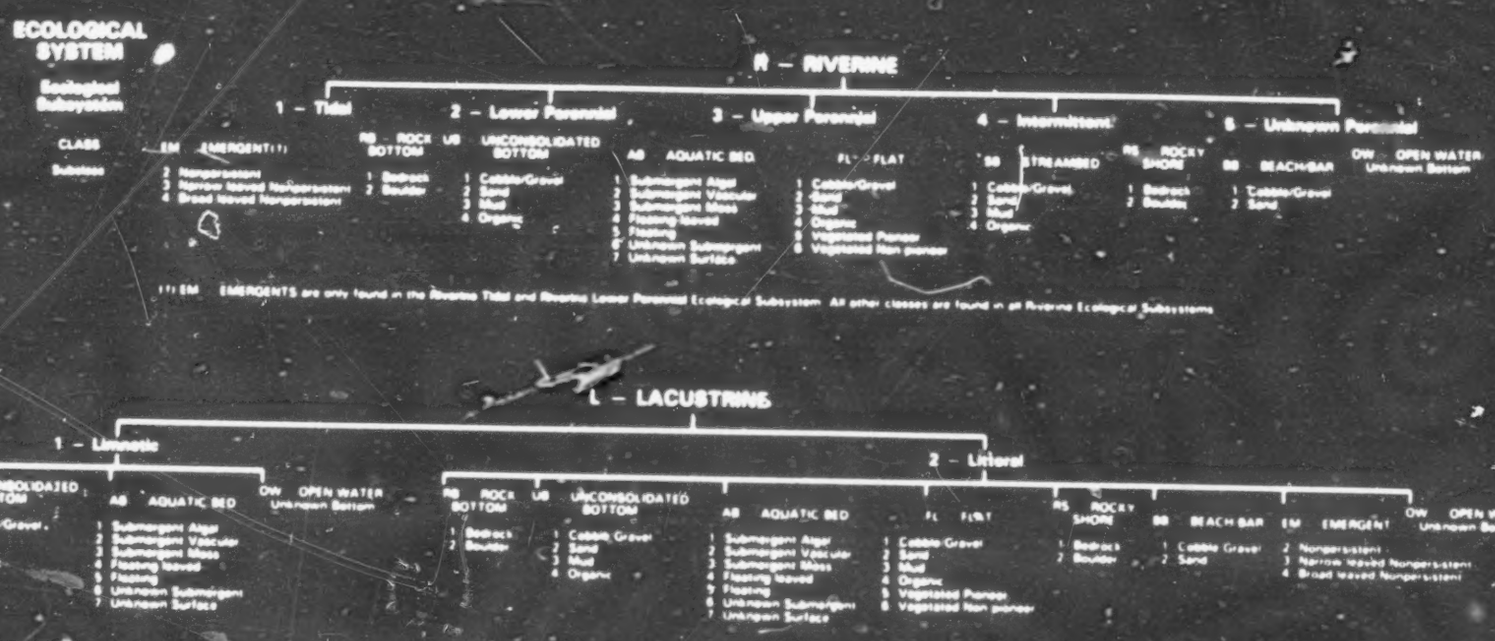

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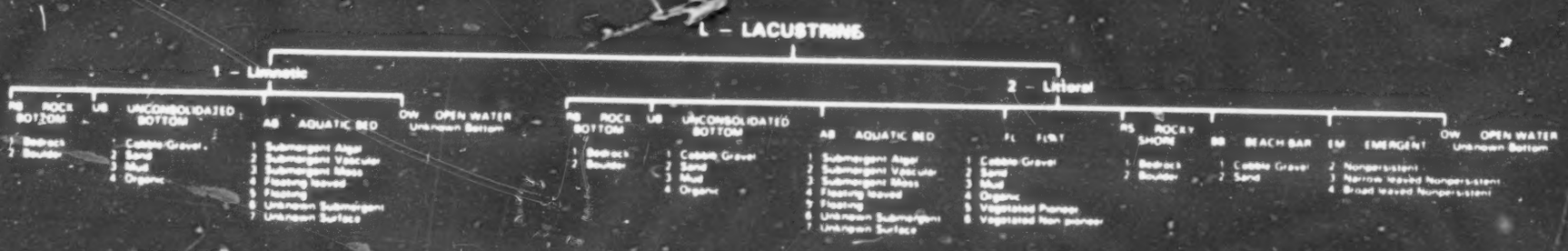

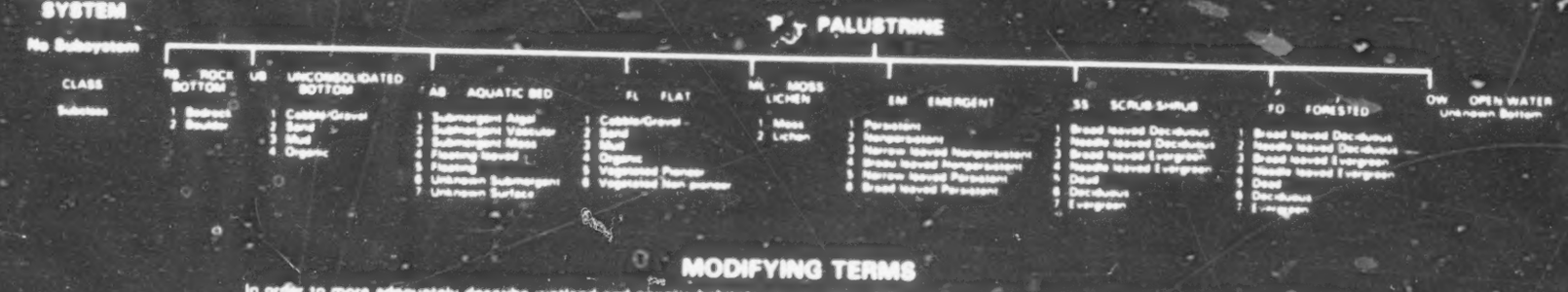

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- L Intermittently Exposed/Permanent
- M Permanent/Semipermanent/Seasonal
- N Artificial/Semipermanent/Seasonal
- P Artificial
- U Unknown

Tidal

- R Subtidal
- S Irregularly Exposed
- T Regularly Flooded
- V Irregular
- Y Seasonal Tidal
- Z Temporary Tidal
- 1 Semipermanent Tidal
- 2 Permanent Tidal
- 9 Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hypohaline
- 2 Oligohaline
- 3 Mesohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mesosaline
- 0 Fresh

pH Modifiers for all Fresh Water

- a Acid
- i Circumneutral
- i Alkaline

SOIL

- 8 Organic
- A Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- n Artificial
- r Spoil
- x Excavated

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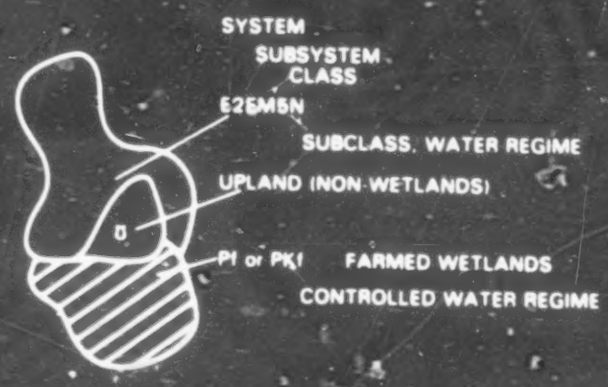

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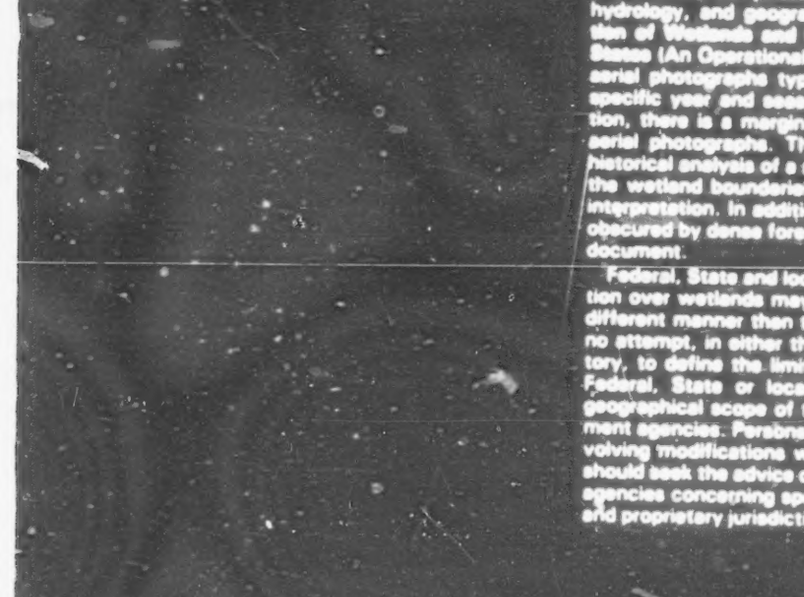

AF 14084C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

LEWES, DEL.

1-SLS-5

13

38°45'

75°07'30"

SALISBURY NW
SEAFORD

LEWES, DEL.

Aerial Photo 4/81

SCALE 1:24000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972

WETLAND LEGEND

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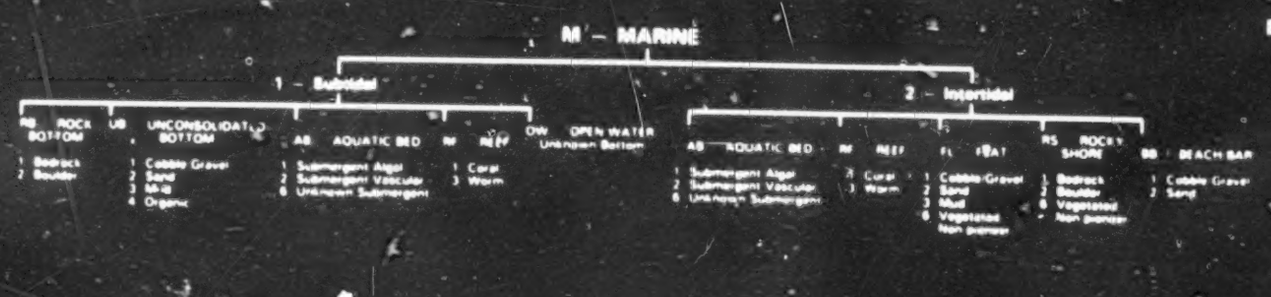
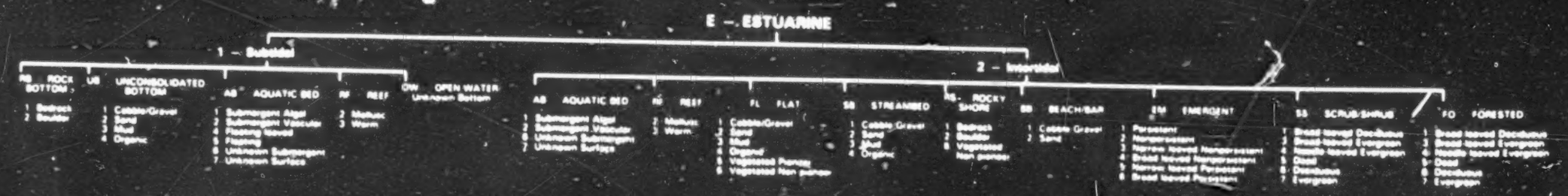
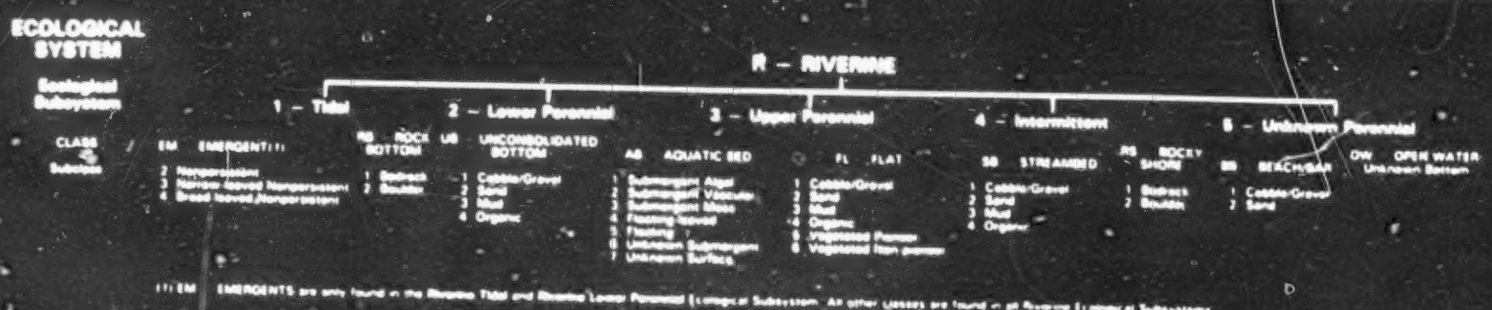


ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass



ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass



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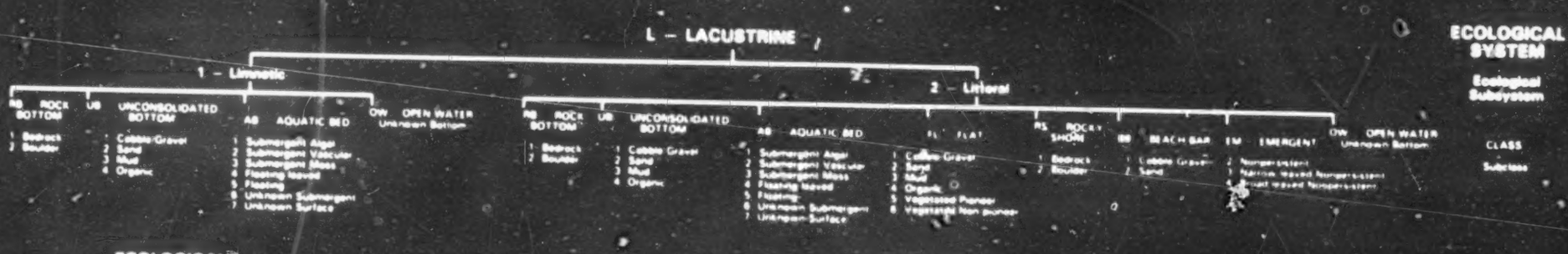
ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass



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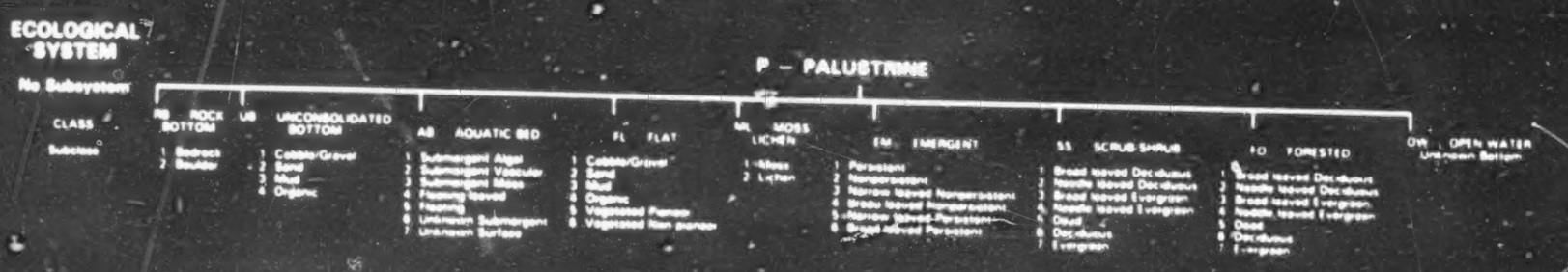

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Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently, Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown
- X Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- h Alkaline

SOIL
- 8 Organic
- 9 Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- x Excavated

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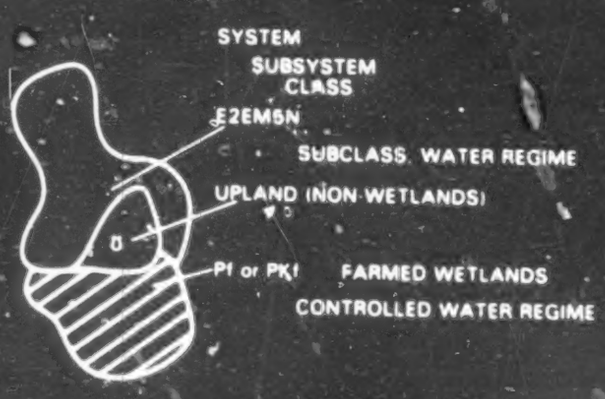

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SALISBURY NW (SEAFORD)

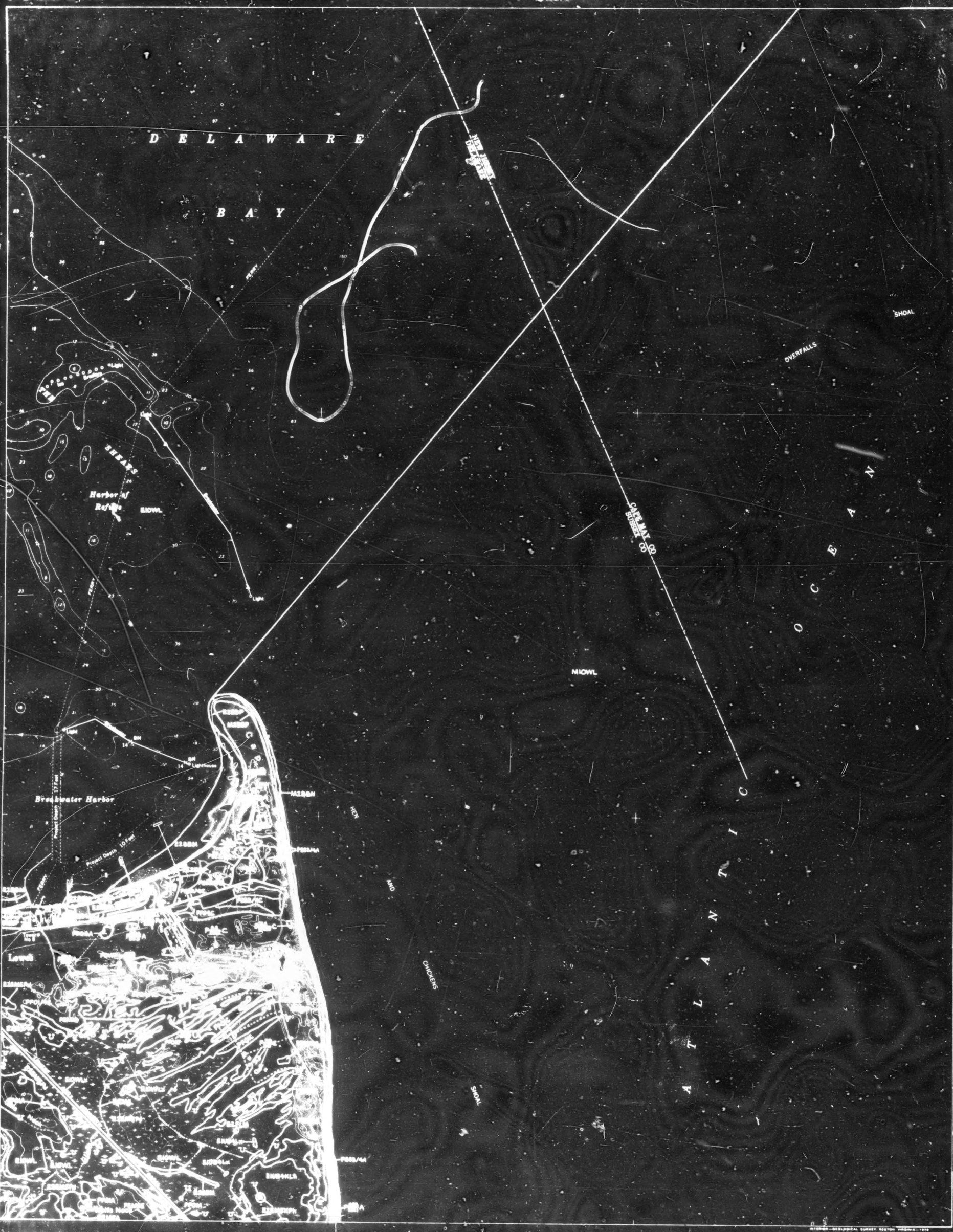
RIDGELY	DENTON	BRASSVILLE	HARRINGTON	MILFORD	MISPILLION RIVER		
NW			NC			NE	
FOWLING CREEK	HOBBS	HICKMAN	GREENWOOD	ELLENDALE	MILTON	LEWES	CAPE HENLOPEN
PRESTON	FEDERALSBURG	SEAFORD WEST	SEAFORD EAST	GEORGETOWN	HARBESON	FAIRMOUNT	REHOBOTH BEACH
SW			SC			SE	
EAST NEW MARKET	RHODESDALE	SHARPTOWN	LAUREL	TRAP POND	MILLSBORO	FRANKFORD	BETHANY BEACH

AF 14084C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

CAPE HENLOPEN, DEL.-N.J.



SALISBURY NW
SEAFORD

SCALE 1:24000

AERIAL PHOTO 4/81

CAPE HENLOPEN, DEL.-N.J.

14

38°45'
75°00'

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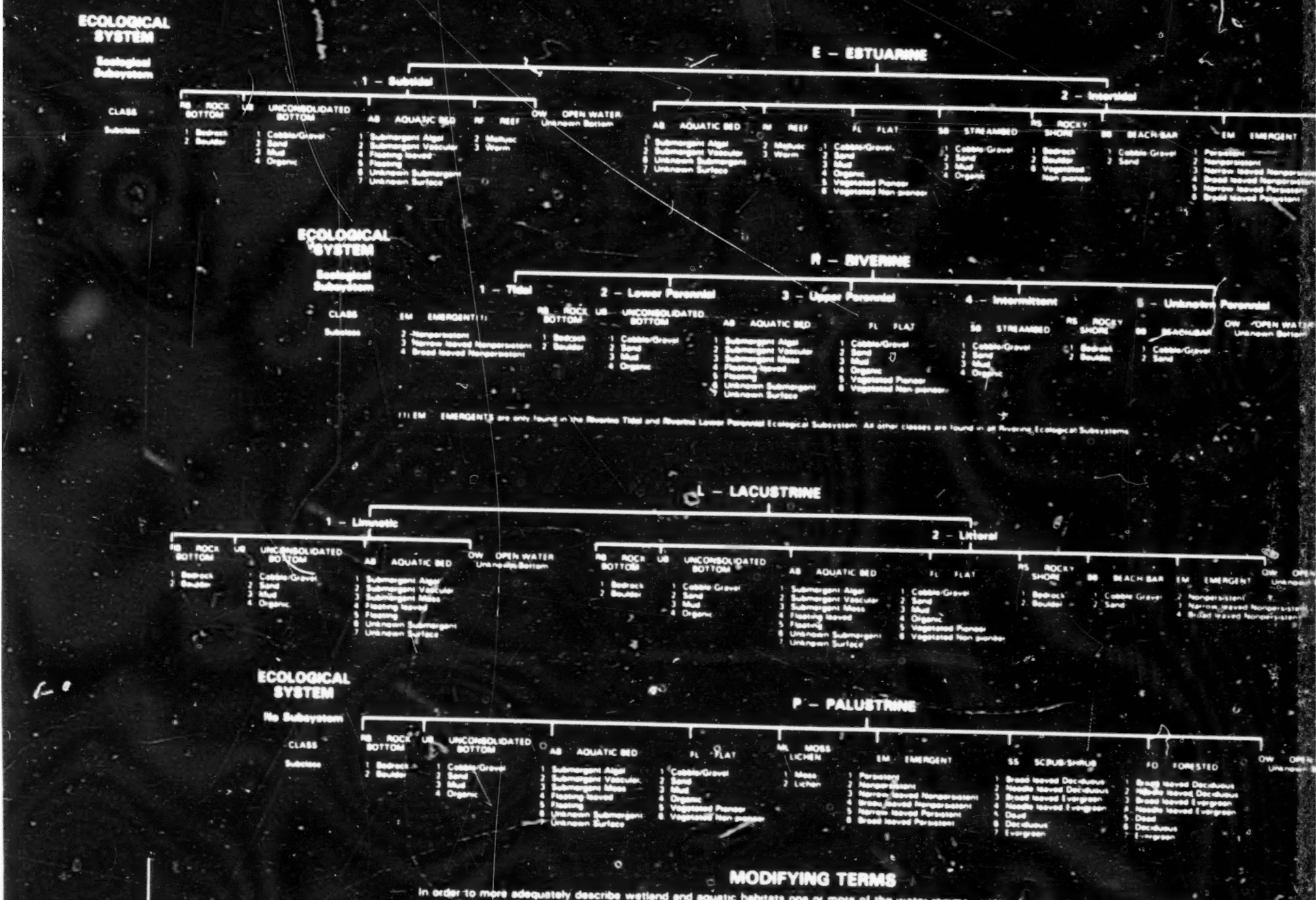

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B	Saturated	J	Intermittently Flooded	K Subtidal	S Temporary Tidal
C	Seasonal	F	Artificial	M Irregularly Exposed	T Semipermanent Tidal
D	Seasonal Well-drained	N	Intermittently Exposed/Permanent	Q Regular	V Permanent Tidal
E	Seasonal Saturated	W	Intermittently Flooded/Temporary	P Irregular	U Unknown
F	Semipermanent	Z	Saturated/Semipermanent/Seasonal		
G	Intermittently Exposed	U	Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hypersaline	7 Hypersaline	4 Acid
2 Eusaline	8 Eusaline	5 Circumneutral
3 Mixosaline (Brackish)	9 Mixosaline	6 Alkaline
4 Polysaline	0 Fresh	
5 Mesosaline		
6 Oligosaline		
0 Fresh		

SOIL

8	Organic
9	Mineral

SPECIAL MODIFIERS

b	Beaver
d	Partially Drained/Ditched
f	Farmed

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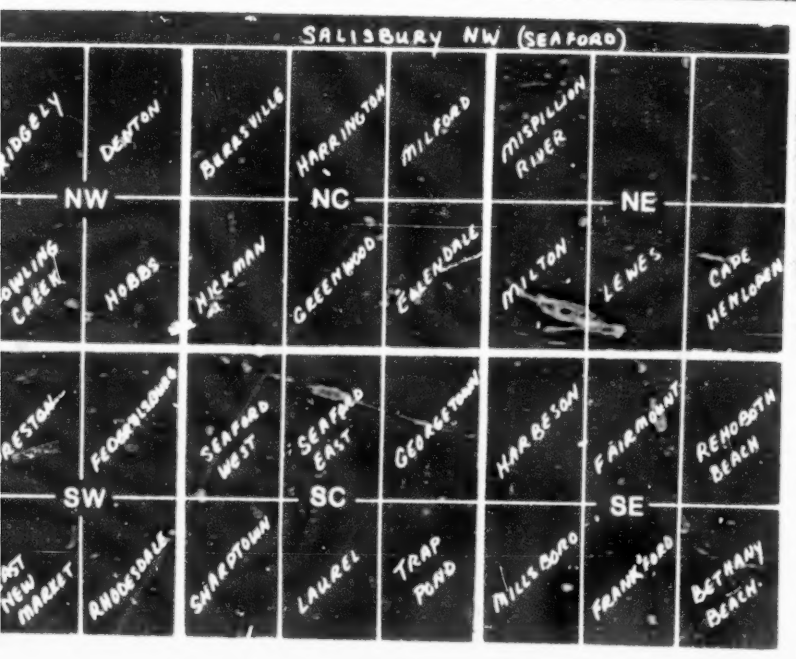
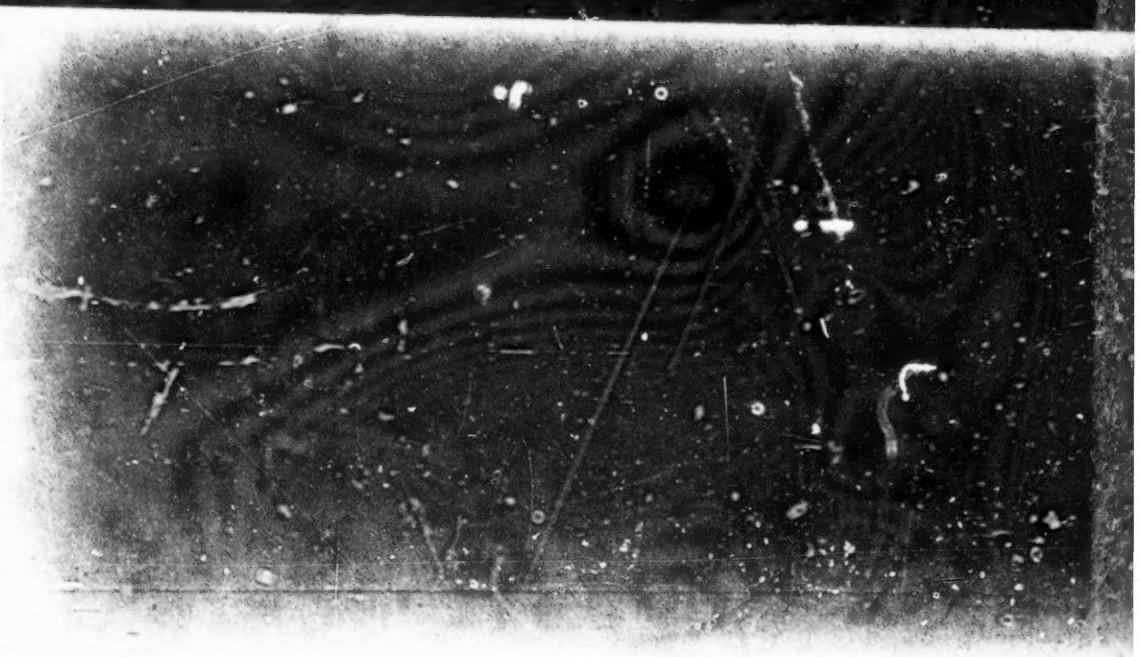
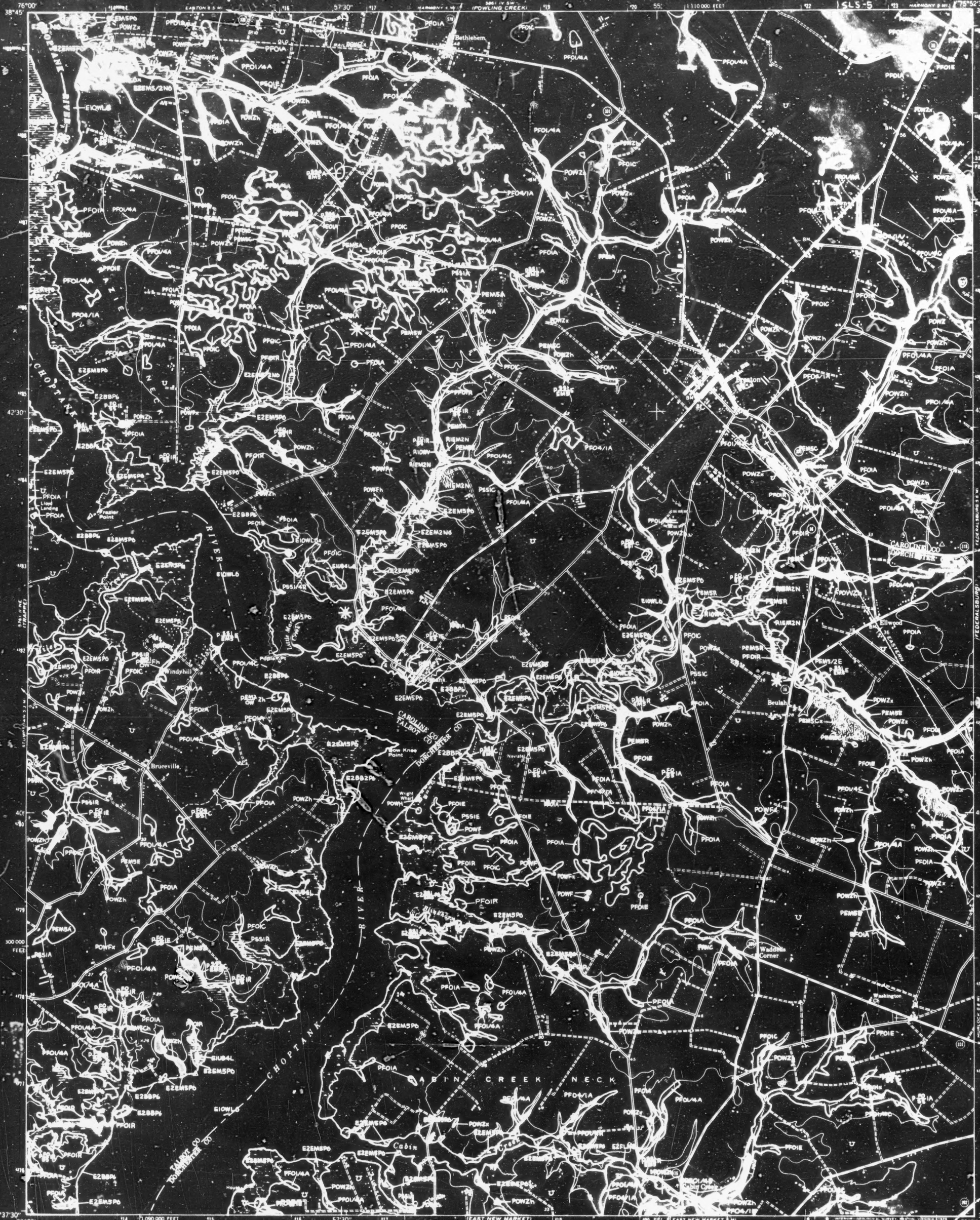




NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

PRESTON, MD.


CHOPTANK RIVER
CAROLINE CO
TALBOT CO
DORCHESTER CO
CABIN CREEK NECK
Bethlehem
Preston
Windyhill
Bruceville
Beulah
Ellwood
Waddells Corner
Washington
Frazier Point
Slow Knee Point
Wright Wharf
Cabin Creek
Little Marsh Point
Choptank
Navaltex
Hollow
Mt. Zion Church
CAROLINE CO
DORCHESTER CO
EASTON 8.5 MI
HARMONY 4 MI
SALISBURY 11 MI SW (FOWLING CREEK)
HARMONY 2 MI
EAST NEW MARKET 5 MI
SALISBURY 11 MI SW (TRAPPE)
FEDERALSBURG 5.5 MI
HURLOCK 6.8 MI
EAST NEW MARKET 3 MI
SALISBURY 11 MI NE (TRAPPE)
SALISBURY 11 MI NE
HURLOCK 6.7 MI
SLS-5
1 110 000 FEET
1 090 000 FEET
330 000 FEET
300 000 FEET
76°00'
75°52'30"
38°45'
42'30"
57'30"
38°37'30"
40'
E2EM5P6
E2EM5/2ND
E2EM5P6
E2BBP6
E2EM5P6
E2EM5P6
E2EM5P

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M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RS ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF REEF
1 Coral
3 Worm

OW OPEN WATER
Unknown Bottom

2 – Intertidal

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF REEF
1 Coral
3 Worm

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
6 Vegetated Non-pioneer

RS ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non-pioneer

BB BEACH/BAR
1 Cobble-Gravel
2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RS ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
4 Floating leaved
5 Flocking
6 Unknown Submergent
7 Unknown Surface

RF REEF
2 Mollusc
3 Worm

OW OPEN WATER
Unknown Bottom

2 – Intertidal

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent
7 Unknown Surface

RF REEF
2 Mollusc
3 Worm

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

SB STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non-pioneer

BB BEACH/BAR
1 Cobble-Gravel
2 Sand

EM EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent
5 Narrow leaved Persistent
6 Broad leaved Persistent

SS SCRUB/SHRUB
1 Broad leaved Deciduous
2 Broad leaved Evergreen
4 Needle leaved Evergreen
6 Dead
7 Deciduous
Evergreen

FO FORESTED
1 Broad leaved Deciduous
2 Broad leaved Evergreen
4 Needle leaved Evergreen
6 Dead
7 Deciduous
Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal

EM EMERGENT(1)
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent

2 – Lower Perennial

RS ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

3 – Upper Perennial

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Flocking
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

4 – Intermittent

SB STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS ROCKY SHORE
1 Bedrock
2 Boulder

BB BEACH/BAR
1 Cobble-Gravel
2 Sand

5 – Unknown Perennial

OW OPEN WATER
Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic

RS ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Flocking
6 Unknown Submergent
7 Unknown Surface

OW OPEN WATER
Unknown Bottom

2 – Littoral

RS ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Flocking
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

RS ROCKY SHORE
1 Bedrock
2 Boulder

BB BEACH/BAR
1 Cobble-Gravel
2 Sand

EM EMERGENT
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent

OW OPEN WATER
Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RS ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Flocking
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

RB MOSS LICHEN
1 Moss
2 Lichen

EM EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent
5 Narrow leaved Persistent
6 Broad leaved Persistent

SS SCRUB/SHRUB
1 Broad leaved Deciduous
2 Needle leaved Deciduous
3 Broad leaved Evergreen
4 Needle leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

FO FORESTED
1 Broad leaved Deciduous
2 Needle leaved Deciduous
3 Broad leaved Evergreen
4 Needle leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

OW OPEN WATER
Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

A Temporary
B Saturated
C Seasonal
D Seasonal Well-drained
E Seasonal Saturated
F Semipermanent
G Intermittently Exposed
H Permanent
J Intermittently Flooded
K Artificial
Z Intermittently Exposed/Permanent
W Intermittently Flooded/Temporary
Y Saturated/Semipermanent/Seasonal
U Unknown

Tidal

E Artificial
L Subtidal
M Irregularly Exposed
N Regular
P Irregular
R Seasonal Tidal
S Temporary Tidal
T Semipermanent Tidal
V Permanent Tidal
U Unknown

WATER CHEMISTRY

Coastal Salinity
1 Hypohaline
2 Euhaline
3 Mixohaline (Brackish)
4 Polyhaline
5 Mesohaline
6 Oligohaline
0 Fresh

Inland Salinity
7 Hyperhaline
8 Eusaline
9 Mixosaline
0 Fresh

pH Modifiers for all Fresh Water
a Acid
i Circumneutral
i Alkaline

SOIL

8 Organic
7 Mineral

SPECIAL MODIFIERS

b Beaver
d Partially Drained/Ditched
f Farmed
h Diked/Impounded
r Artificial
s Spoil
x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

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SALISBURY NW (SEAFORD)

RIDGELY	DENTON	BARRSVILLE	HARRINGTON	MILFORD	MISPILLION RIVER		
NW			NC			NE	
POWELLS CREEK	HOBBS	HICKMAN	GREENWOOD	ELLENDALE	MILTON	LEWES	CAPE HENLOPEN
PRESTON	FEDERALSBURG	SEAFORD WEST	SEAFORD EAST	GEORGETOWN	HARBESON	FAIRMOUNT	REHOBOTH BEACH
SW			SC			SE	
EAST NEW MARKET	RHODESDALE	SHARPTOWN	LAUREL	TRAP POND	MILLSBORO	FRANKFORD	BETHANY BEACH

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

FEDERALSBURG, MD

1815-16

SALISBURY NW
SEAFORD

FEDERALSBURG, MD

AERIAL PHOTO 3/82

SCALE 1:24,000

16

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent

RF REEF: 2 Coral; 3 Worm

OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent

RF REEF: 1 Coral; 3 Worm

FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non pioneer

RS ROCKY SHORE: 1 Bedrock; 2 Boulder; 6 Vegetated Non pioneer

BB BEACH/BAR: 1 Cobble/Gravel; 2 Sand

CLASS: Subclass

E – ESTUARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface

RF REEF: 2 Mollusc; 3 Worm

OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent; 7 Unknown Surface

RF REEF: 2 Mollusc; 3 Worm

FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non pioneer

SB STREAMBED: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

RS ROCKY SHORE: 1 Bedrock; 2 Boulder; 6 Vegetated Non pioneer

BB BEACH/BAR: 1 Cobble Gravel; 2 Sand

EM EMERGENT: 1 Persistent; 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent; 5 Narrow leaved Persistent; 6 Broad leaved Persistent

SS SCRUB SHRUB: 1 Broad leaved Deciduous; 2 Needle leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

CLASS: Subclass

R – RIVERINE

ECOLOGICAL SYSTEM

Ecological Subsystem

1 – Tidal; 2 – Lower Perennial; 3 – Upper Perennial; 4 – Intermittent; 5 – Unknown Perennial

CLASS: Subclass

EM EMERGENT(1): 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface

FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non pioneer

SB STREAMBED: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

RS ROCKY SHORE: 1 Bedrock; 2 Boulder

BB BEACH/BAR: 1 Cobble/Gravel; 2 Sand

OW OPEN WATER Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM

1 – Limnetic

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface

OW OPEN WATER Unknown Bottom

2 – Littoral

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface

FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non pioneer

RS ROCKY SHORE: 1 Bedrock; 2 Boulder

BB BEACH/BAR: 1 Cobble/Gravel; 2 Sand

EM EMERGENT: 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent

OW OPEN WATER Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM

No Subsystem

CLASS: Subclass

RB ROCK BOTTOM: 1 Bedrock; 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic

AB AQUATIC BED: 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface

FL FLAT: 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non pioneer

ML MOSS LICHEN: 1 Moss; 2 Lichen

EM EMERGENT: 1 Persistent; 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent; 5 Narrow leaved Persistent; 6 Broad leaved Persistent

SS SCRUB SHRUB: 1 Broad leaved Deciduous; 2 Needle leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

FO FORESTED: 1 Broad leaved Deciduous; 2 Needle leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

OW OPEN WATER Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittent, seasonal/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal

- A Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hypersaline
- 2 Eusaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water

- a Acid
- b Circumneutral
- c Alkaline

SOIL

- g Organic
- m Mineral

SPECIAL MODIFIERS

- h Beaver
- k Partially Drained/Ditched
- x Farmed
- i Diked/Impounded
- r Artificial
- s Spoil
- e Excavated

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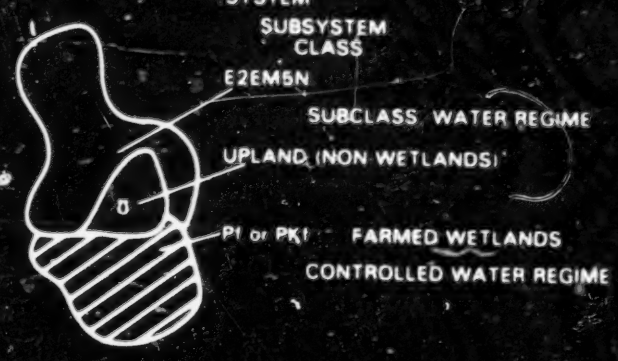
SYMBOLOGY EXAMPLE



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SALISBURY NW (SEAFORD)

RIDGELY	DENTON	BURRSVILLE	HARRINGTON	MILFORD	MISPILLION RIVER		
NW			NC			NE	
TOWNSEND CREEK	HOBBS	NICKMAN	GREENWOOD	ELLENDALE	MILTON	LEWES	CAPE HENLOPEN
PRESTON	FLORENCE	SEAFORD WEST	SEAFORD EAST	GEORGETOWN	HARBESON	FAIRMOUNT	REHOBOTH BEACH
SW			SC			SE	
EAST NEW MARKET	RHODESDALE	SHARPTOWN	LAUREL	TRAP POND	MILLSBORO	FRANKFORD	BETHANY BEACH

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

EAST NEW MARKET, MD

SALISBURY NW
SEAFORD

EAST NEW MARKET, MD.

SCALE 1:24 000

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF REEF
1 Coral
3 Worm

OW OPEN WATER
Unknown Bottom

2 – Intertidal

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF REEF
1 Coral
3 Worm

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
6 Vegetated Non pioneer

RS ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non pioneer

BB BEACH BAR
1 Cobble-Gravel
2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Floating leaved
4 Floating
6 Unknown Submergent
7 Unknown Surface

RF REEF
2 Mollusc
3 Worm

OW OPEN WATER
Unknown Bottom

2 – Intertidal

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Floating leaved
4 Floating
6 Unknown Submergent
7 Unknown Surface

RF REEF
2 Mollusc
3 Worm

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non pioneer

SB STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non pioneer

BB BEACH BAR
1 Cobble-Gravel
2 Sand

EM EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent
5 Narrow leaved Persistent
6 Broad leaved Persistent

SS SCRUB-SHRUB
1 Broad leaved Deciduous
2 Broad leaved Evergreen
3 Needle leaved Evergreen
4 Dead
6 Deciduous
7 Evergreen

FO FORESTED
1 Broad leaved Deciduous
2 Broad leaved Evergreen
3 Needle leaved Evergreen
4 Dead
6 Deciduous
7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal

EM EMERGENT(1)
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent

2 – Lower Perennial

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

3 – Upper Perennial

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non pioneer

4 – Intermittent

SB STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS ROCKY SHORE
1 Bedrock
2 Boulder

5 – Unknown Perennial

BB BEACH BAR
1 Cobble-Gravel
2 Sand

OW OPEN WATER
Unknown Bottom

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L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

OW OPEN WATER
Unknown Bottom

2 – Littoral

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non pioneer

RS ROCKY SHORE
1 Bedrock
2 Boulder

BB BEACH BAR
1 Cobble-Gravel
2 Sand

EM EMERGENT
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent

OW OPEN WATER
Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RB ROCK BOTTOM
1 Bedrock
2 Boulder

UB UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating leaved
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non pioneer

ML MOSS LICHEN
1 Moss
2 Lichen

EM EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow leaved Nonpersistent
4 Broad leaved Nonpersistent
5 Narrow leaved Persistent
6 Broad leaved Persistent

SS SCRUB-SHRUB
1 Broad leaved Deciduous
2 Needle leaved Deciduous
3 Broad leaved Evergreen
4 Needle leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

FO FORESTED
1 Broad leaved Deciduous
2 Needle leaved Deciduous
3 Broad leaved Evergreen
4 Needle leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

OW OPEN WATER
Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- V Intermittently Flooded/Temporary
- C Unknown

Tidal
- L Artificial
- M Subtidal
- N Intermittently Exposed
- P Regular
- Q Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- U Permanent Tidal
- V Unknown

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Coastal Salinity
- 1 Hypersaline
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- 6 Mesosaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
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- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- k Alkaline

SOIL
- 0 Organic
- 5 Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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NW			NC			NE	
FOWLING CREEK	HOBBS	NICKMAN	GREENWOOD	ELLENDALE	MILTON	LEWES	CAPE HENLOPEN
PRESTON	FEDERALSBURG	SEAFORD WEST	SEAFORD EAST	GEORGETOWN	HARBESON	FAIRMOUNT	REHOBOTH BEACH
SW			SC			SE	
EAST NEW MARKET	ANDOVERSALE	SHARPTOWN	LAUREL	TRAP POND	MILLSBORO	FRANKFORD	BETHANY BEACH

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

RHODESDALE, MD

SALISBURY NW
SEAFORD

SCALE 1:24 000

RHODESDALE, MD.

WETLAND LEGEND

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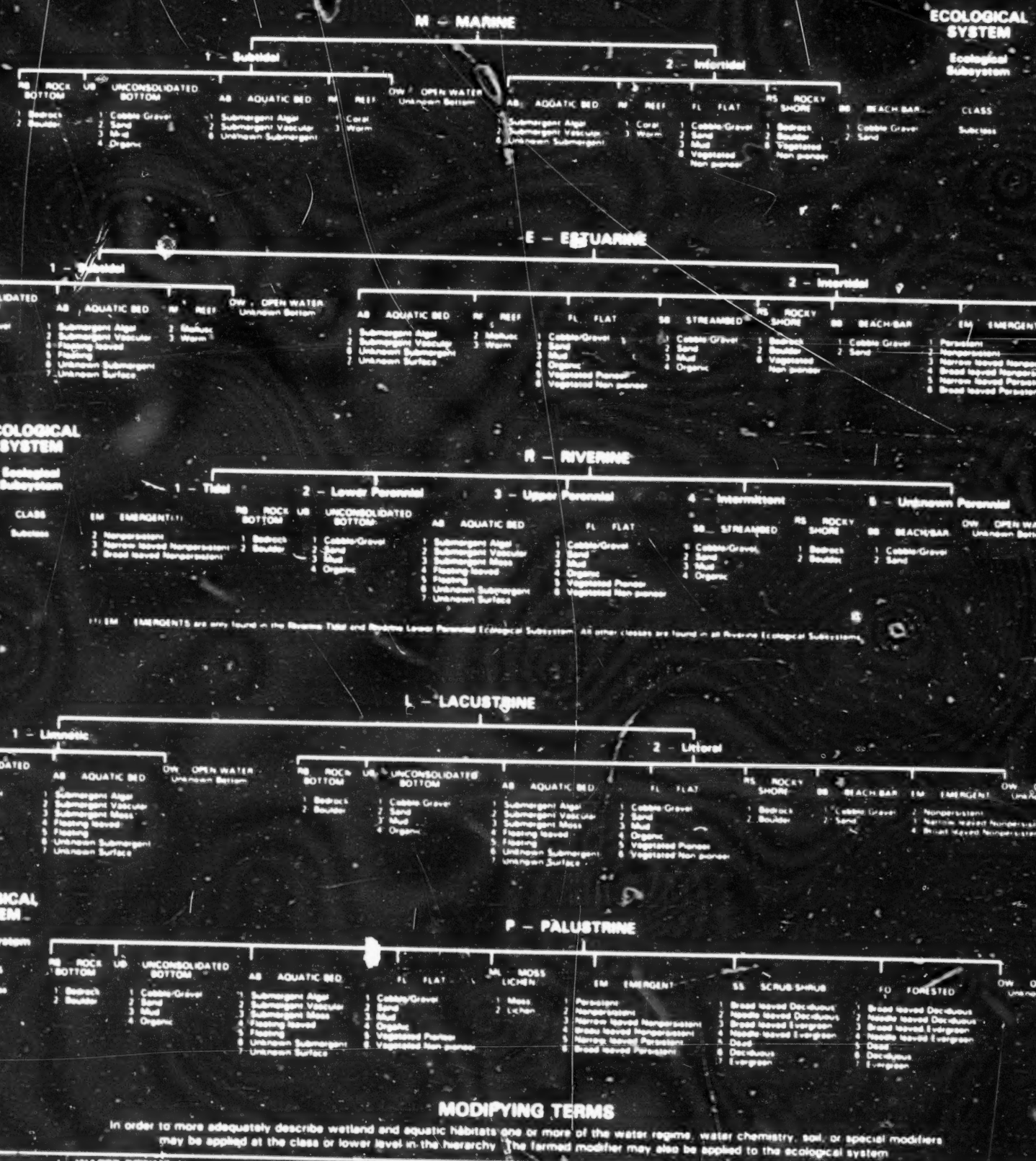

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WATER REGIME(1)

Non-Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal Well-drained; E Seasonal Saturated; F Semipermanently Flooded; G Intermittently Exposed; H Permanent; J Intermittently Flooded; K Artificial; Y Intermittent, Exposed/Permanent; Z Intermittently Flooded/Temporary; V Saturated/Semipermanent/Seasonal; U Unknown.

Tidal: K Artificial; L Subtidal; M Irregularly Exposed; N Regular; P Irregular; R Seasonal Tidal; S Temporary Tidal; T Semipermanent Tidal; V Permanent Tidal; U Unknown.

WATER CHEMISTRY

Coastal Salinity: 1 Hypersaline; 2 Eusaline; 3 Mixosaline (Brackish); 4 Polysaline; 5 Mesosaline; 6 Oligosaline; 0 Fresh.

Inland Salinity: 7 Hypersaline; 8 Eusaline; 9 Mixosaline; 0 Fresh.

pH Modifiers for all Fresh Water: a Acid; c Circumneutral; i Alkaline.

SOIL: o Organic; n Mineral.

SPECIAL MODIFIERS: b Beaver; d Partially Drained/Ditched; f Farmed; h Diked/Impounded; r Artificial; s Spoil; x Excavated.

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

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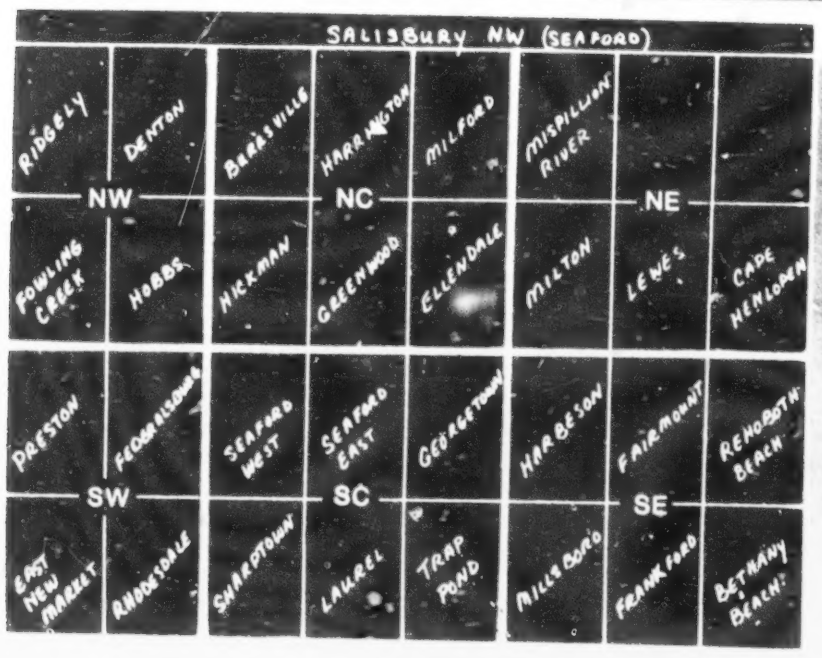
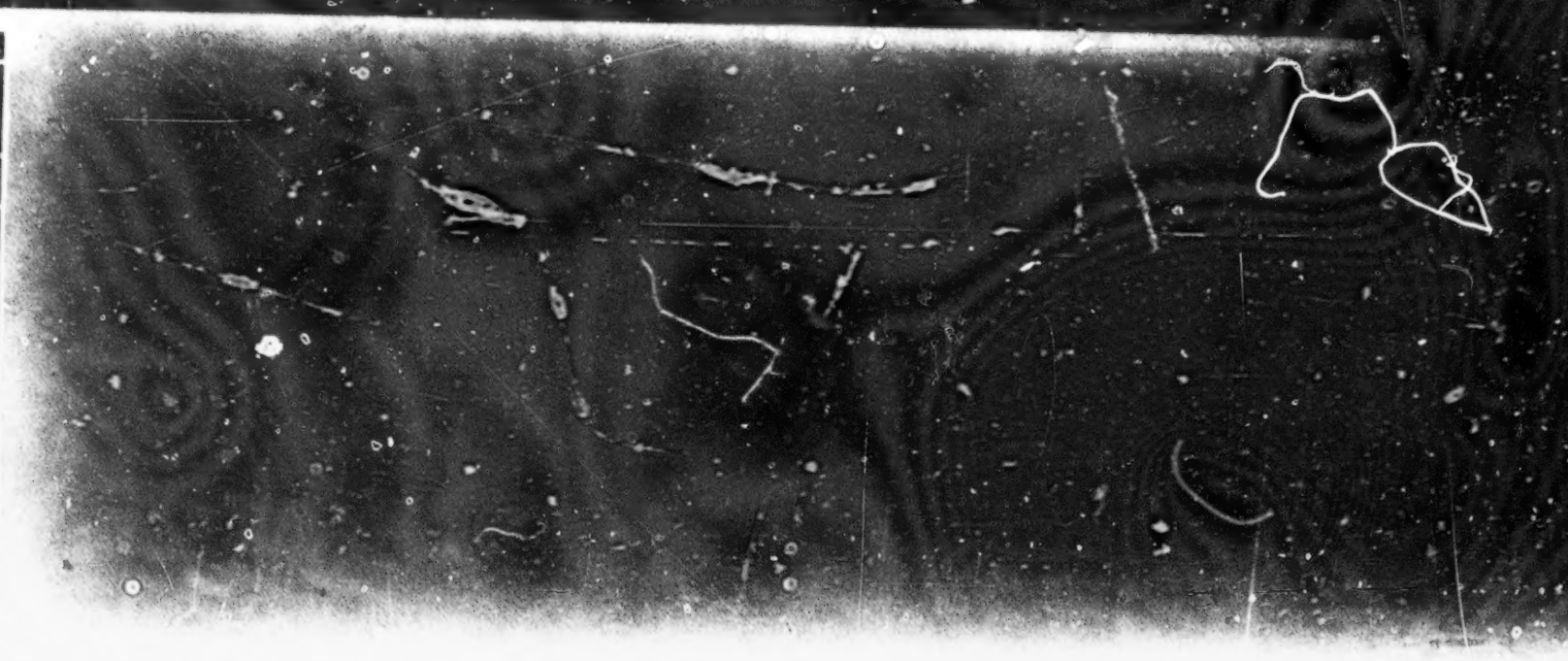


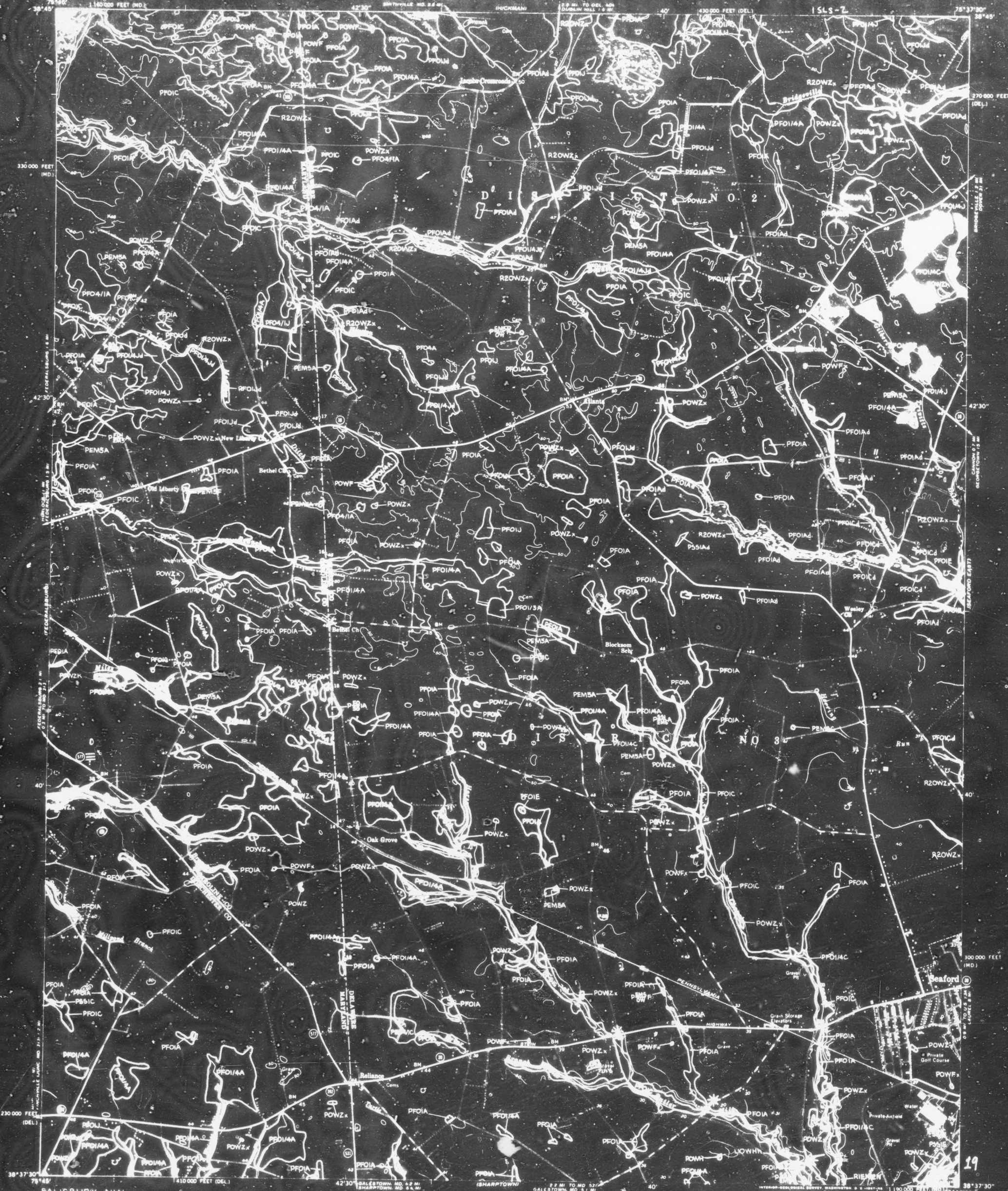


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

SEAFORD WEST, DEL.-MD.

1SLS-Z



SALISBURY NW
SEAFORD

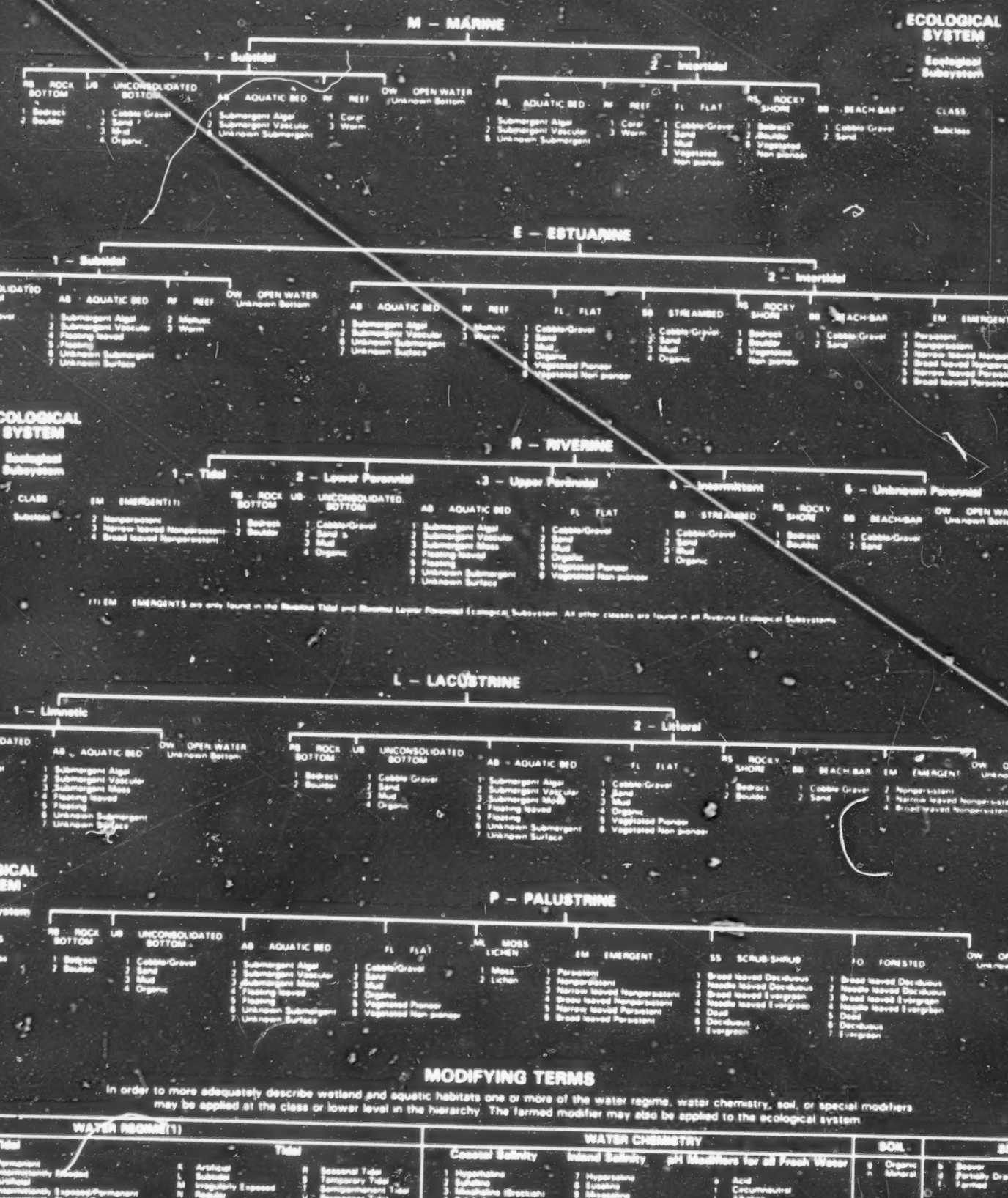
SCALE 1:24 000

AERIAL PHOTO 3-82

SEAFORD WEST, DEL.-MD.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



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MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Exposed
- K Artificial
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- L Artificial
- M Subtidal
- N Irregularly Exposed
- P Regularly Flooded
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hypersaline
- 2 Eusaline
- 3 Mixosaline (Brackish)
- 4 Polysaline
- 5 Mesosaline
- 6 Oligosaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- i Alkaline

SOIL
- 9 Organic
- n Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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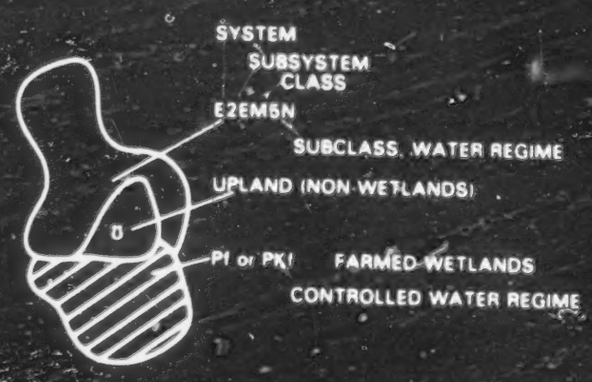
SYMBOLOGY EXAMPLE



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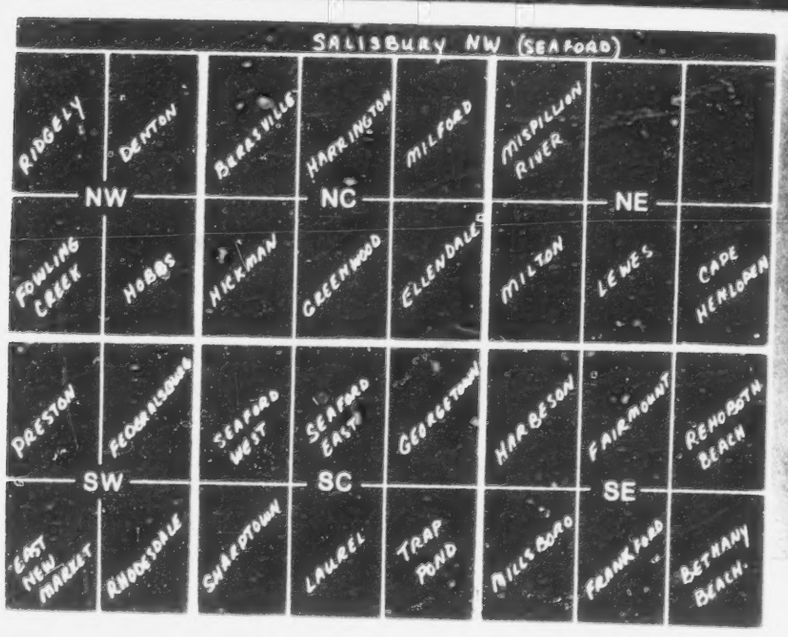

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

SEAFORD EAST, DEL.

DISTRICT NO 2

DISTRICT NO 3

DISTRICT NO

Bridgeville

Coverdale Crossroads

Middleford

Seaford

Nanticoke Acres

Concord

Pond

Ditch

Gully

Turkey Branch

Herring Run

Cannon Ditch

Trailer Park

Golf Course

Cem

Airfield

Water

PENNSYLVANIA

SALISBURY NW
SEAFORD

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.-1977-NE

38°37'30"

75°30'

SEAFORD EAST, DEL.

WETLAND LEGEND

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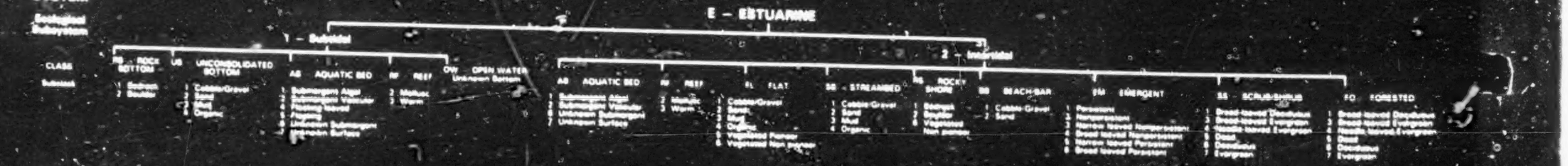

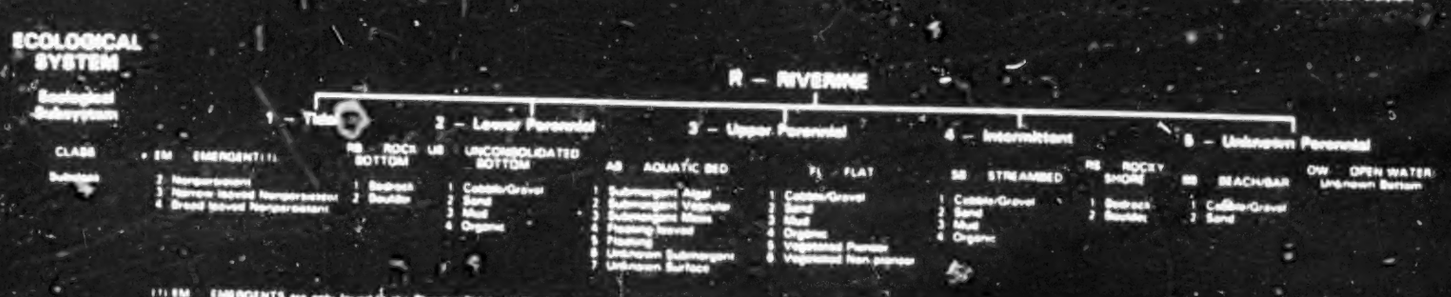

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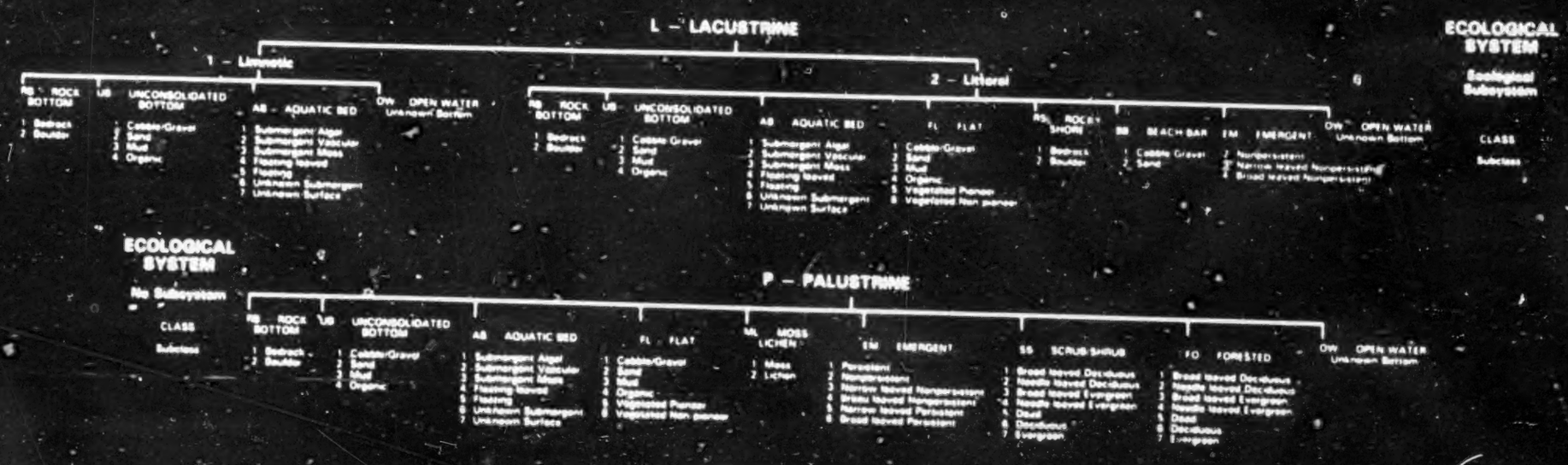

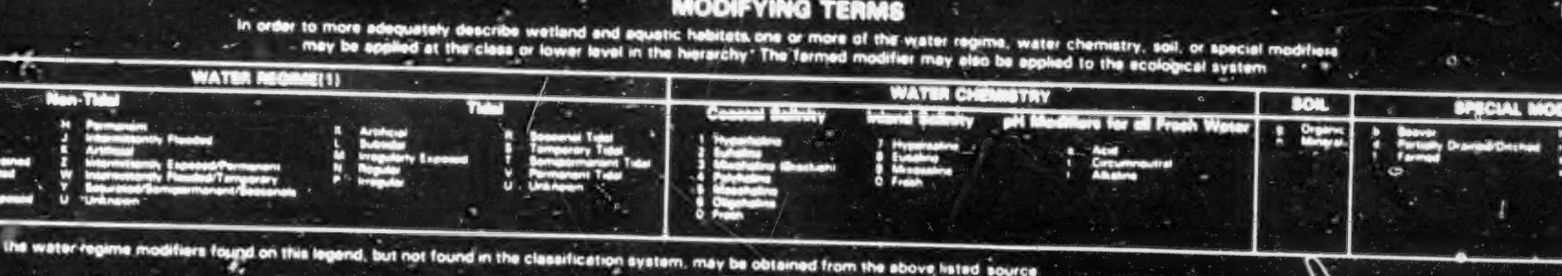

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Non-Tidal

- A Temporary
- B Saturated
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- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- N Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal

- E Arohaal
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hypersaline
- 2 Eusaline
- 3 Mixosaline (Brackish)
- 4 Polysaline
- 5 Oligosaline
- 6 Dioligosaline
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- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water

- a Acid
- i Circumneutral
- i Alkaline

SOIL

- 5 Organic
- 6 Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
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- h Diked/Impounded
- n Artificial
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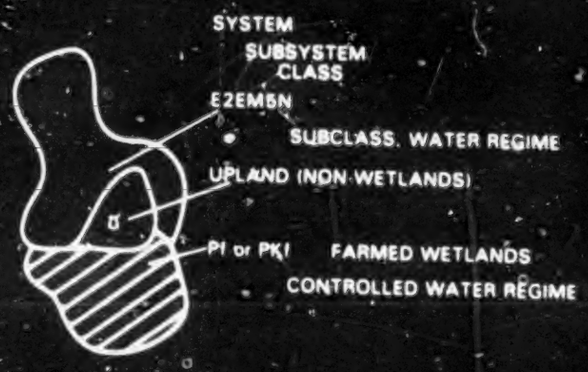

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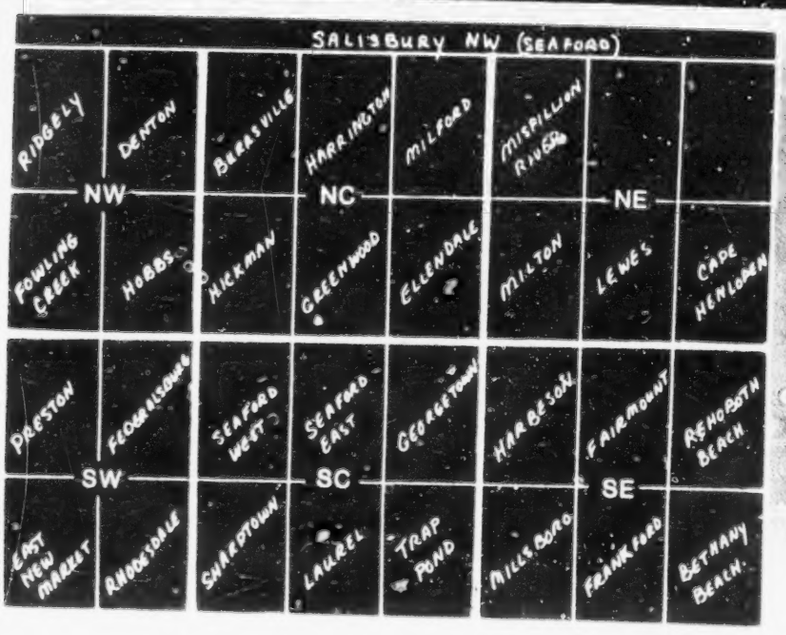

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

GEORGETOWN, DEL.

SLS-18

SALISBURY NW
SEAFORD

GEORGETOWN, DEL.

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

21
38°37'30"
75°22'30"

A/P 4/81

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem: CLASS: Subclass

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent
RF REEF: 2 Mollusk, 3 Worm
OW OPEN WATER: Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent
RF REEF: 2 Mollusk, 3 Worm
FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 6 Vegetated Non pioneer
RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM: Estuarine Subsystem: CLASS: Subclass

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 4 Floating Leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
RF REEF: 2 Mollusk, 3 Worm
OW OPEN WATER: Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent, 7 Unknown Surface
RF REEF: 2 Mollusk, 3 Worm
FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand
EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Persistent, 4 Narrow leaved Nonpersistent, 5 Broad leaved Nonpersistent, 6 Narrow leaved Persistent, 8 Broad leaved Persistent
SS / FO: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem: CLASS: Subclass

1 – Tidal

EM EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent

2 – Lower Perennial

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer

3 – Upper Perennial

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer
SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

4 – Intermittent

RS ROCKY SHORE: 1 Bedrock, 2 Boulder
BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand

5 – Unknown Perennial

OW OPEN WATER: Unknown Bottom

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L – LACUSTRINE

1 – Limnetic

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
OW OPEN WATER: Unknown Bottom

2 – Littoral

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
RS ROCKY SHORE: 1 Bedrock, 2 Boulder
BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand
EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem: CLASS: Subclass

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
ML MOSS LICHEN: 1 Moss, 2 Lichen
EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal: A Temporary, B Saturated, C Seasonal, D Seasonal Well-drained, E Seasonal Saturated, F Semipermanent, G Intermittently Exposed, H Permanent, J Intermittently Flooded, K Artificial, U Unknown

Tidal: K Artificial, L Subtidal, M Irregularly Exposed, N Regular, P Irregular, R Seasonal Tidal, S Temporary Tidal, T Semipermanent Tidal, U Permanent Tidal, Z Unknown

WATER CHEMISTRY

Coastal Salinity: 1 Hyperhaline, 2 Eusaline, 3 Mixohaline (Brackish), 4 Polyhaline, 5 Mesohaline, 6 Oligohaline, 0 Fresh

Inland Salinity: 7 Hypersaline, 8 Eusaline, 9 Mixosaline, 0 Fresh

pH Modifiers for all Fresh Water: a Acid, c Circumneutral, i Alkaline

SOIL: O Organic, M Mineral

SPECIAL MODIFIERS: h Beaver, n Diked/Impounded, d Partially Drained/Ditched, x Excavated, f Farmed

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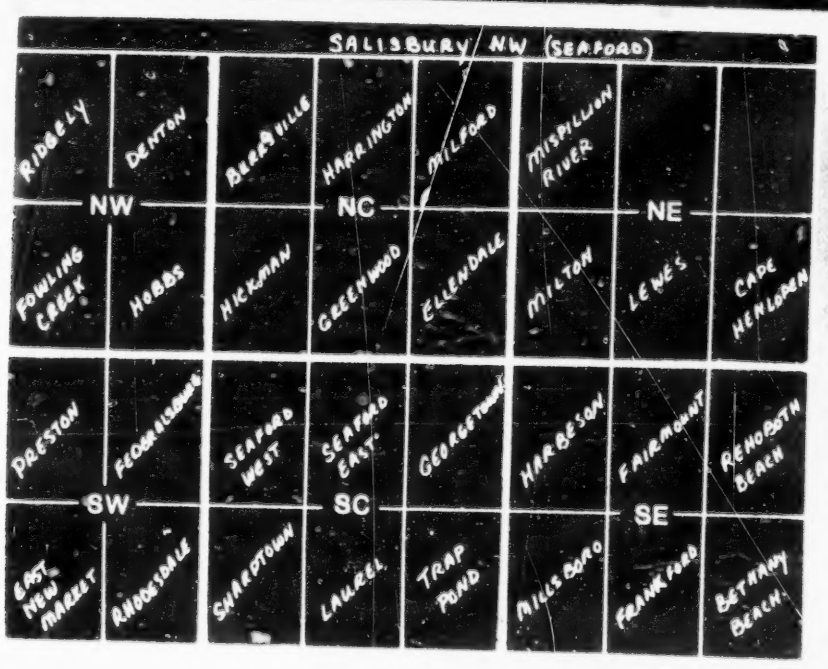

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

SHARPTOWN, DEL.-MD.

DISTRICT NO 1

DISTRICT NO 4

DISTRICT NO 5

NANTICOKE RIVER

Sharptown

Galestown

Wheatley

Santo Domingo

Mt Pleasant Ch

Irving Millpond

Galestown Millpond

Columbia

SALISBURY NW.
SEAFORD

SHARPTOWN, DEL.-MD.

SCALE 1:24000

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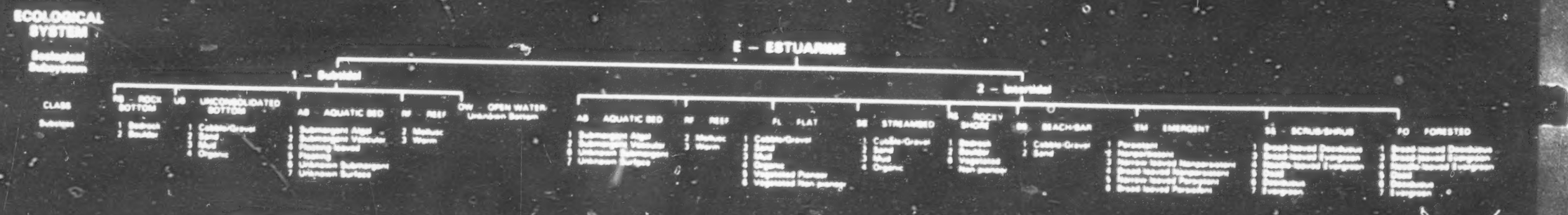

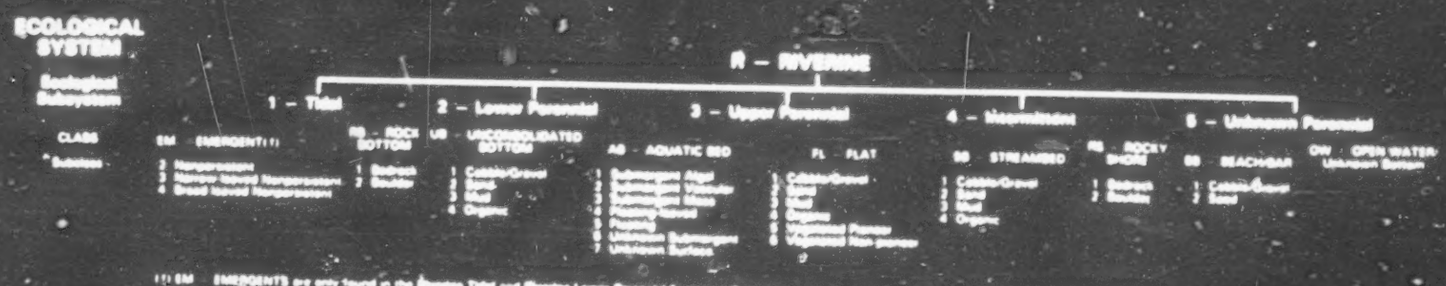

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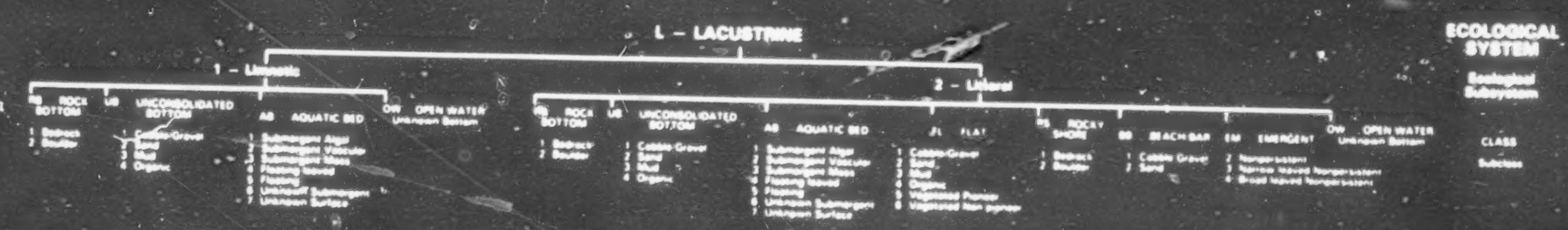

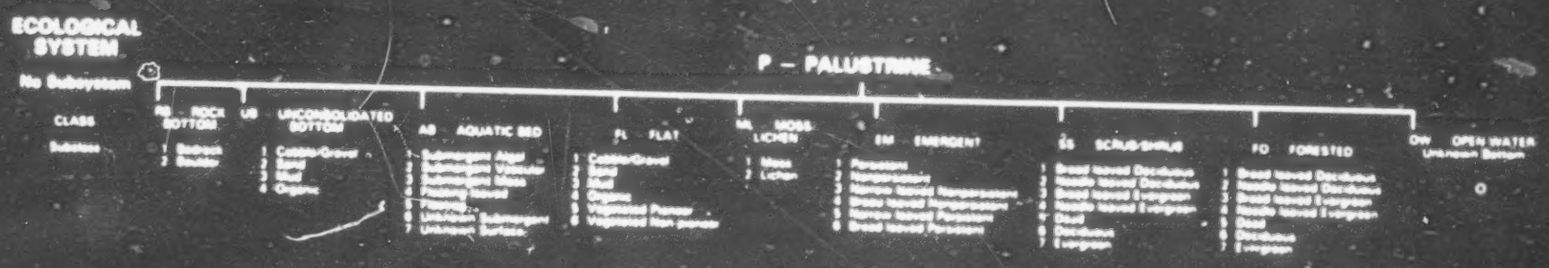

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WATER REGIME(1)		WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal Salinity	Inland Salinity		
A Temporary	H Permanent	1 Hypersaline	7 Hypersaline	8 Organic	b Beaver
B Saturated	J Intermittently Flooded	2 Eusaline	8 Eusaline	9 Mineral	d Partially Drained/Ditched
C Seasonal	K Artificial	3 Mixohaline (Brackish)	9 Mixohaline (Brackish)		f Farmed
D Seasonal/Well-drained	R Seasonally Flooded/Tidal	4 Polyhaline	0 Fresh		g Grazed
E Seasonal/Saturated	T Intermittently Exposed/Permanent	5 Mesohaline	A Acid		h Diked/Impounded
F Artificially Flooded	V Intermittently Exposed/Artificial	6 Oligohaline	C Circumneutral		r Artificial Substrate
G Intermittently Exposed	Y Permanent/Semipermanent/Intermittent/Temporary	0 Fresh	D Alkaline		s Spoil
	Z Intermittently Exposed/Artificial				x Excavated
	U Unknown				

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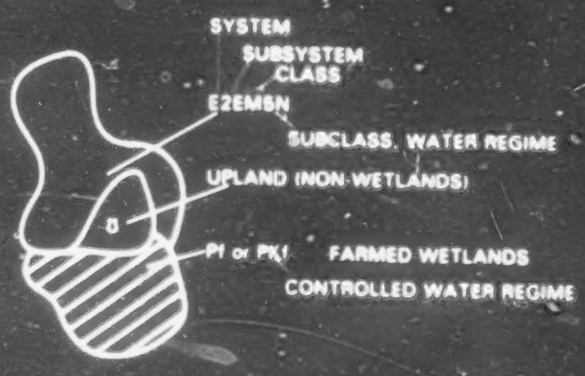
SYMBOLOGY EXAMPLE



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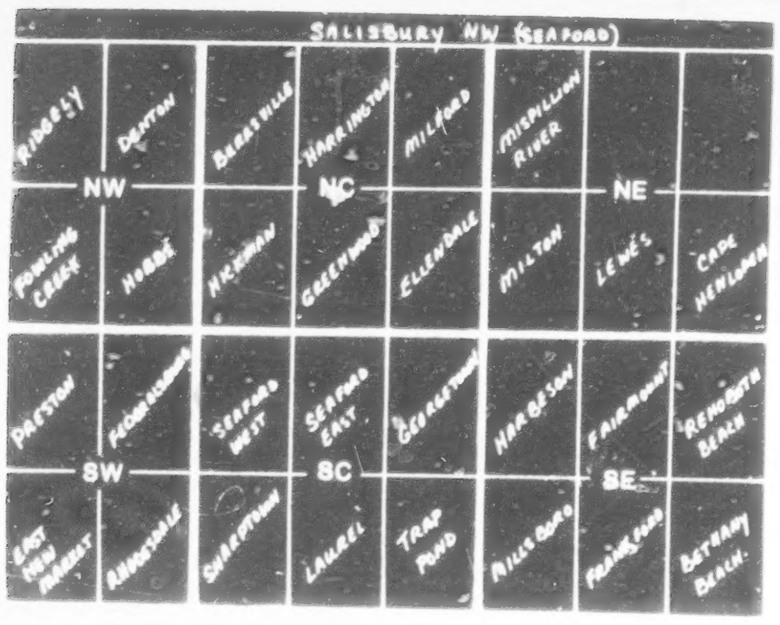


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

LAUREL, DEL.

1345-16

DISTRICT NO 3

DISTRICT NO 4

DISTRICT NO 5

Laurel

Bethel

Delmarva Camp

Hearns Crossroads

Lake Pines

Sandy Fork

Wilcox

Shiloh Ch

Old Christ Ch

Horsey Ch

St Paula Ch

Kings Ch

Lowe

Records Pond

Broad Creek

Ellis Mill

Laurel Airport

Gaging Sta

Sub Sta

Water

Cem

Tank

Grist

Lookout Tower

Pond

Branch

Creek

Ditch

PENNSYLVANIA

SAVANNAH

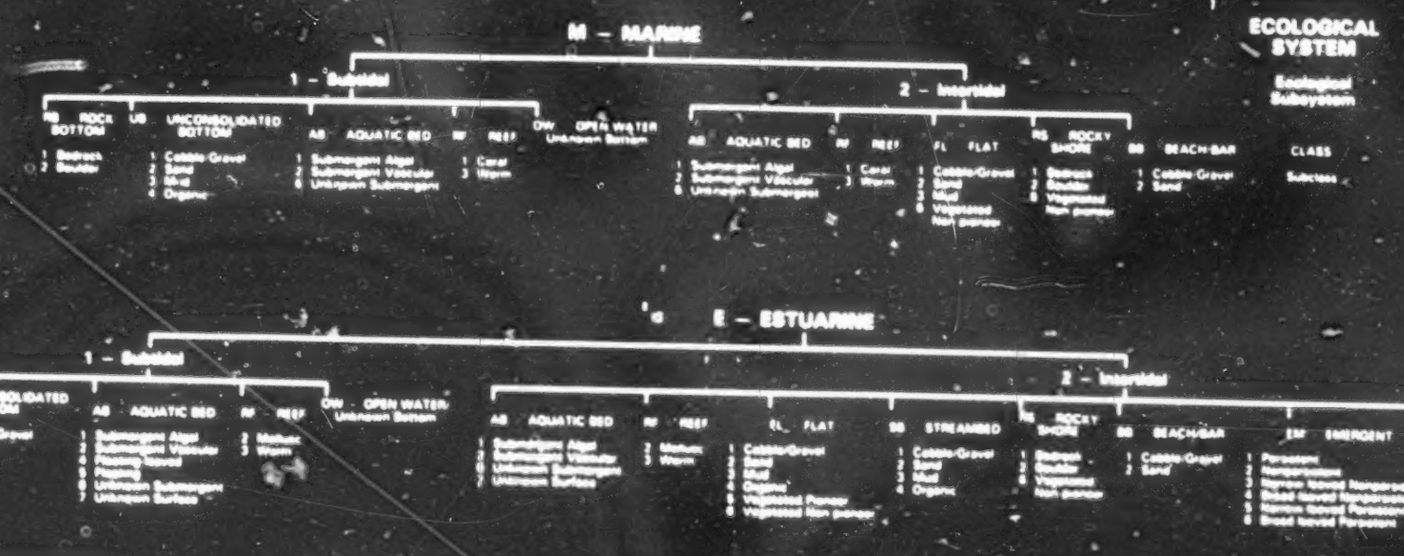
TYNDALL ARM

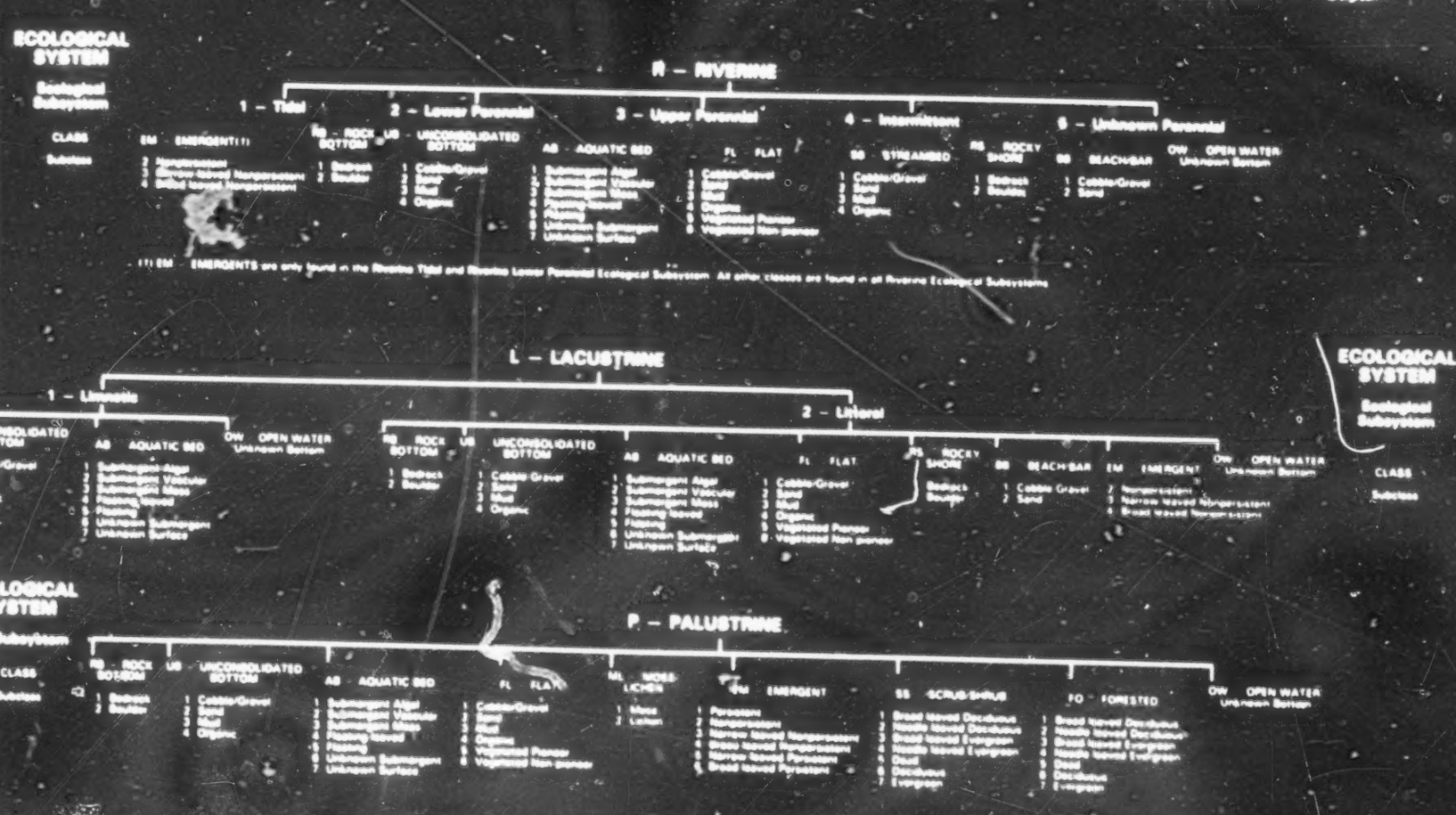
COMPACT

PFO1C PFO1/4C PEMSA PFO1A PFO1/4A PFO1/4Ad PEMSC PFO4/1A PFO4/1C PFO4/1Ad PFO4/1Cd PFO1Ad PFO1Ah PFO1Ch PFO1Eh PFO4A PFO4E PFO4/1E PFO1/4E PEMSE PSS1C PSS1E PSS1Ad PSS1Ah PSS1Eh PSS1/EMSC PSS1/EMSE PSS1/EMSAd PSS1/EMSAh PSS1/EMSEh PSS1/EMSCx PSS1/EMSEx PSS1/EMSAdx PSS1/EMSAhx PSS1/EMSEhx PSS1/EMSCh PSS1/EMSEh PSS1/EMSAh PSS1/EMSEx PSS1/EMSC

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.





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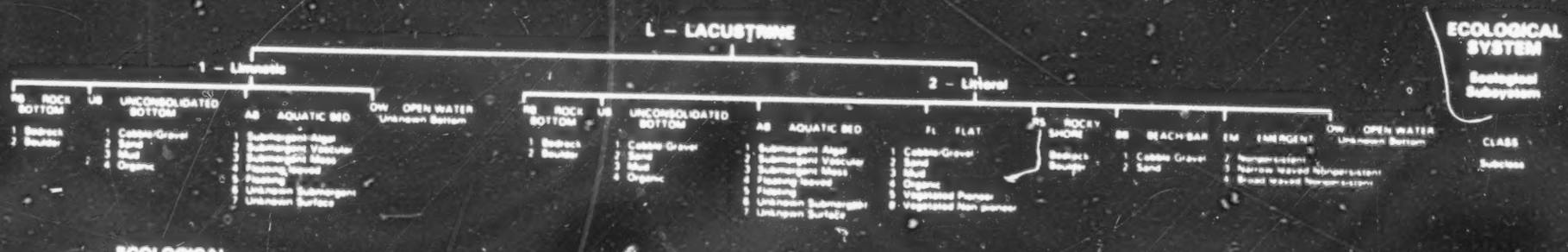

MODIFYING TERMS

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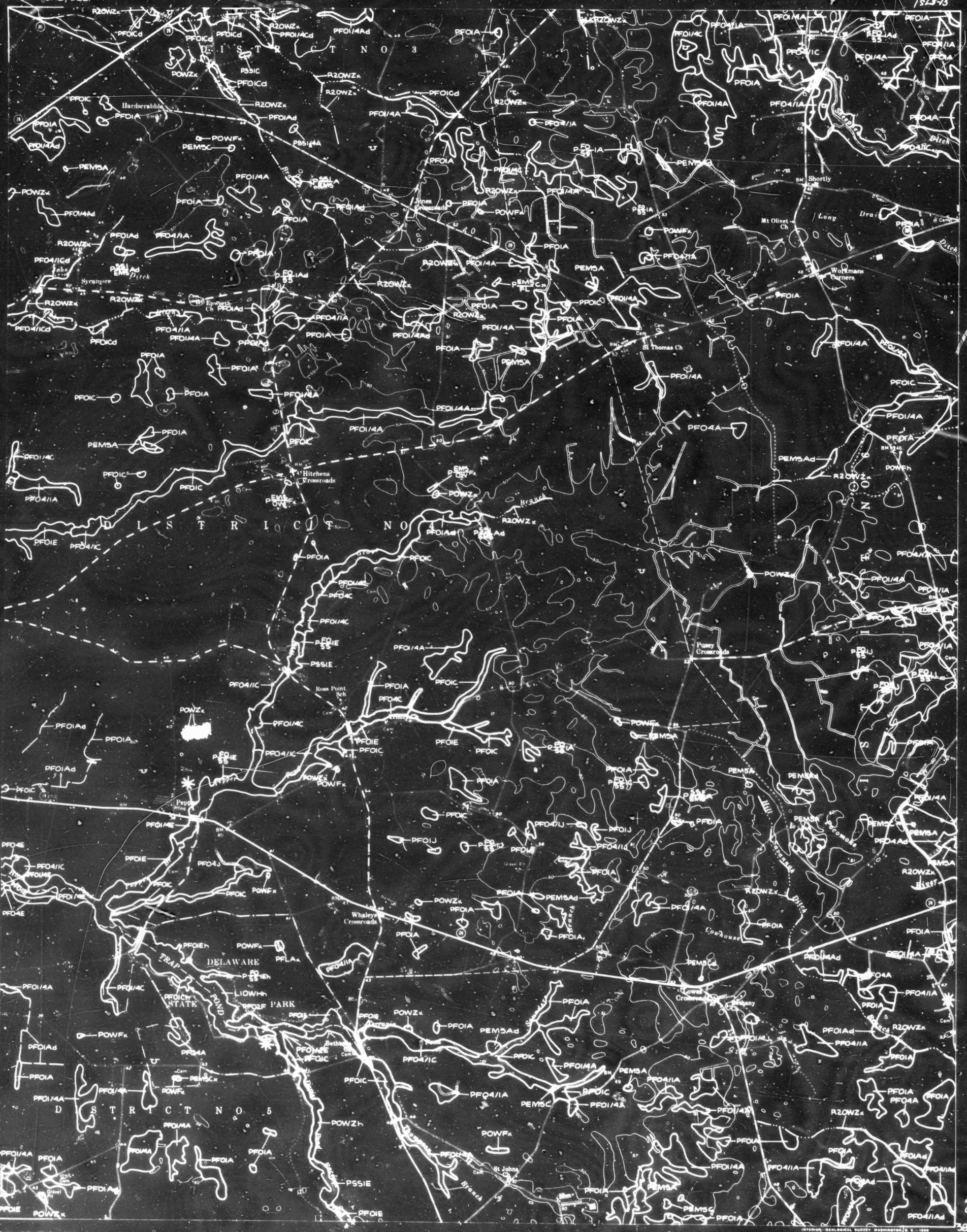
| WATER REGIME(1) | | |

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

TRAP POND, DEL.

1545-13



SALISBURY NW
SEAFORD

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 KILOMETER

24

38°30'
75°22'30"

A/P 4/81

TRAP POND, DEL.

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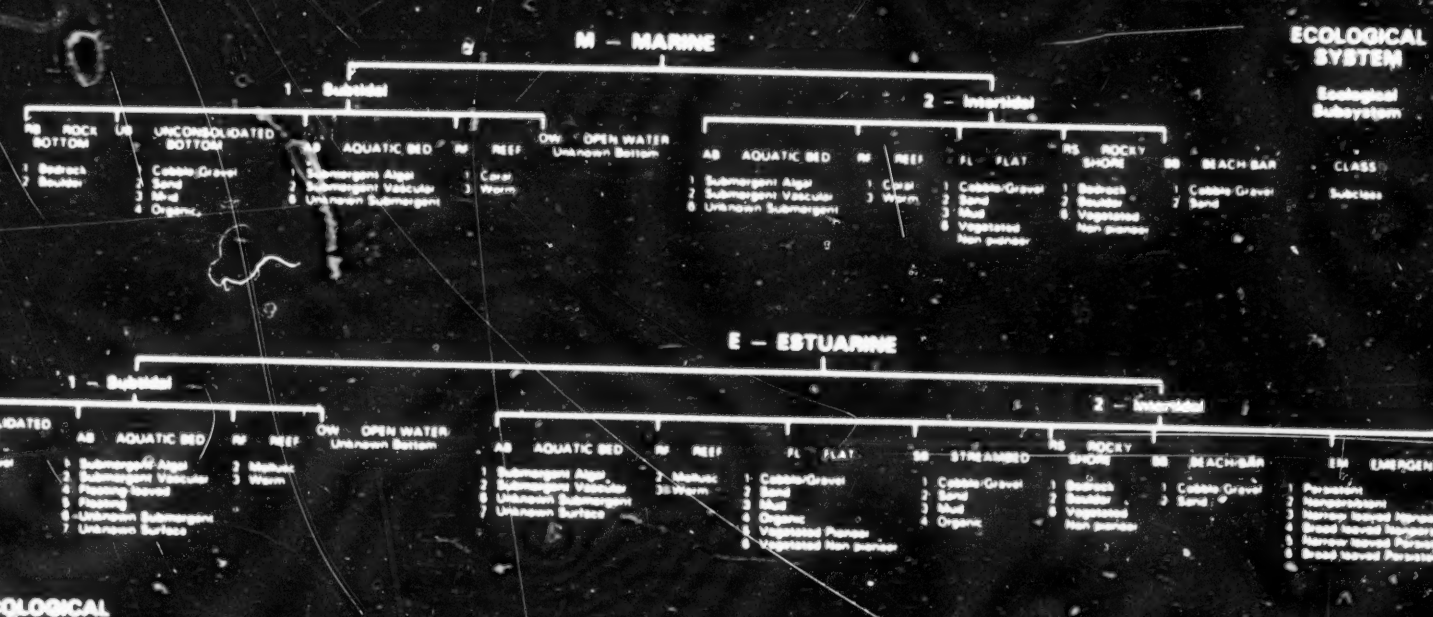

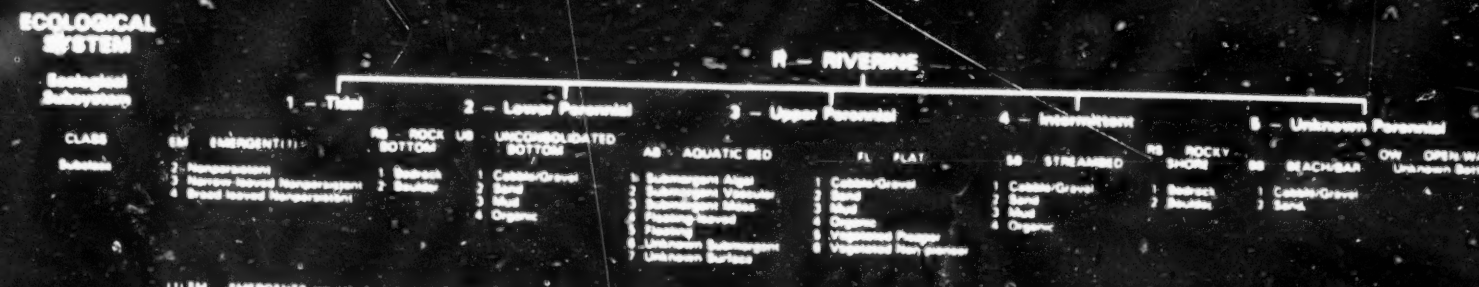

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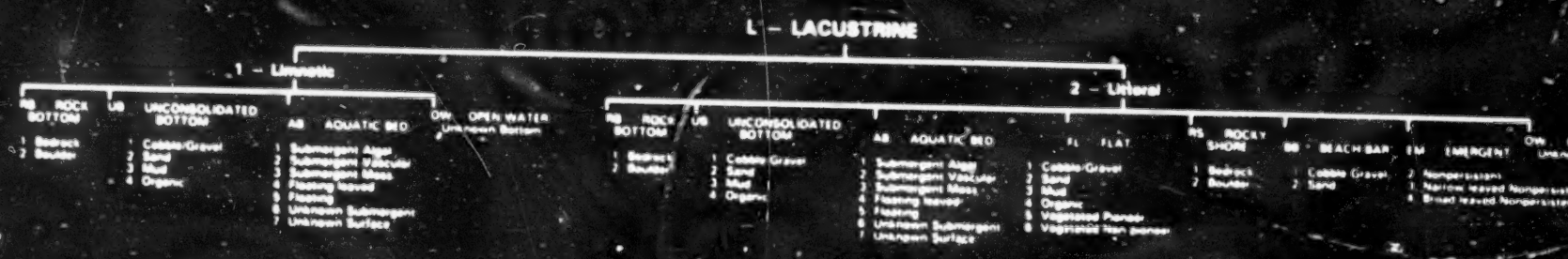

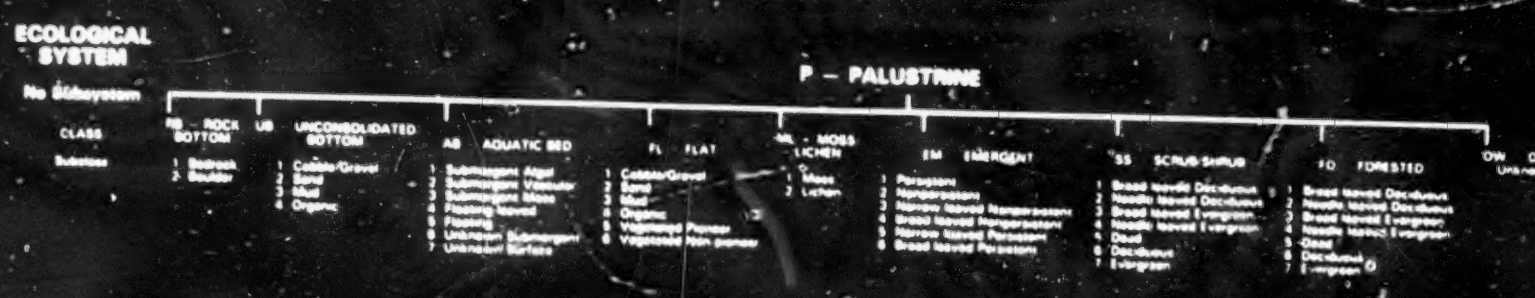

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- N Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- R Artificial
- S Subtidal
- T Irregularly Exposed
- V Regularly Flooded
- Z Irregular

Tidal/Non-Tidal
- 3 Seasonal Tidal
- 4 Temporary Tidal
- 5 Semipermanent Tidal
- 6 Permanent Tidal
- C Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hypersaline
- 2 Eusaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- b Circumneutral
- i Alkaline

SOIL
- 6 Organic
- 7 Mineral

SPECIAL MODIFIERS
- b Beaver
- h Diked/Impounded
- d Partially Drained/Ditched
- f Farmed
- s Artificial
- x Excavated

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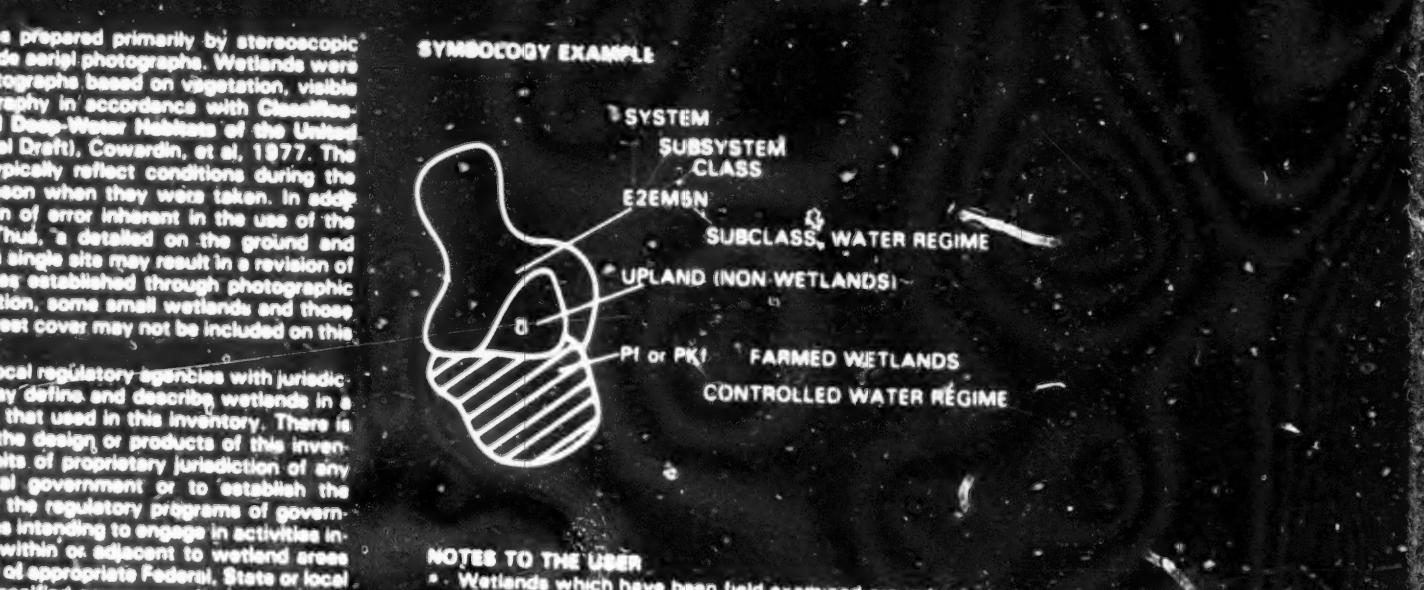
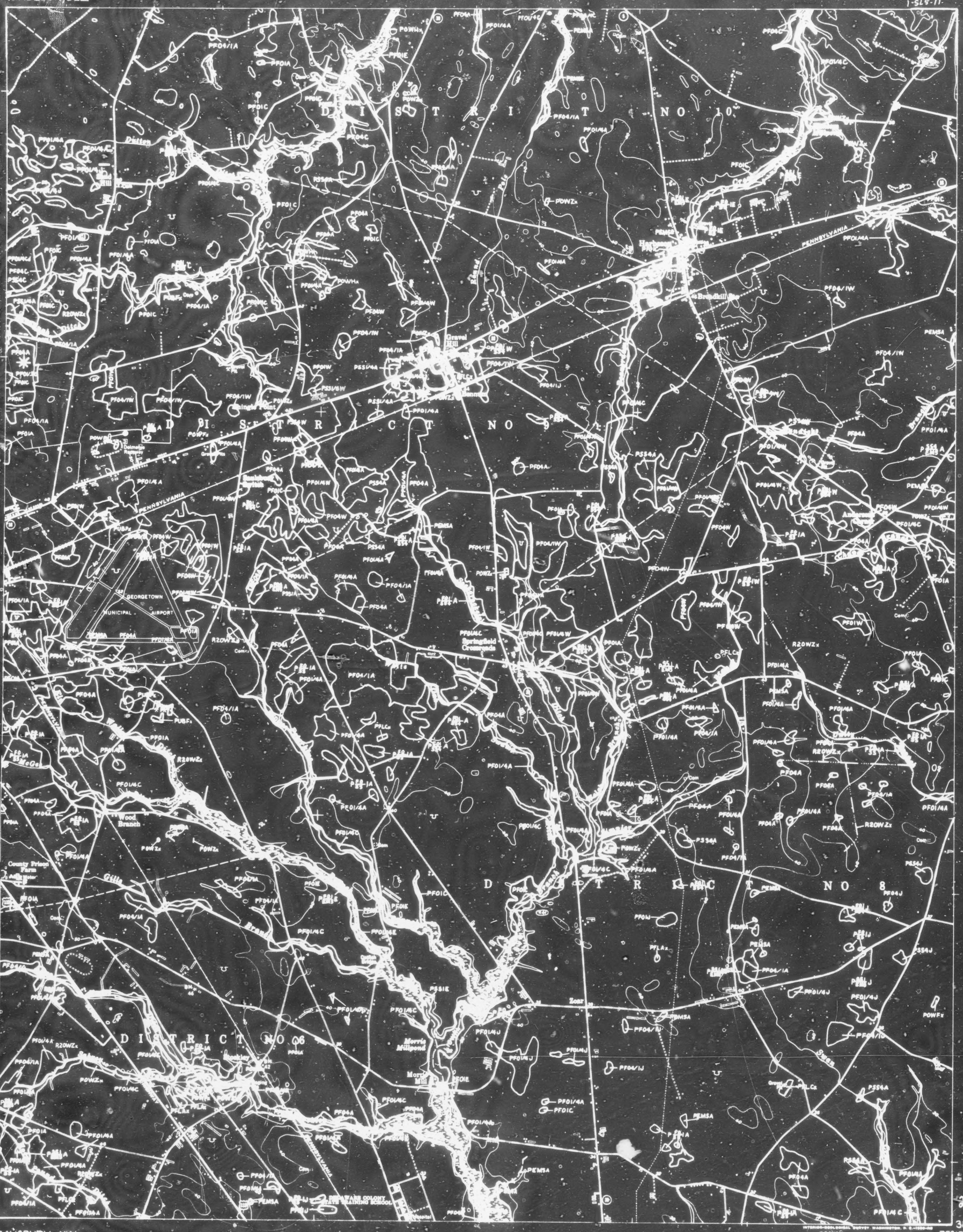


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

HARBESON, DEL.

1-SLS-11



SALISBURY NW
SEAFORD

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

38°37'30"
75°15'

AERIAL PHOTO 4/81

HARBESON, DEL

WETLAND LEGEND

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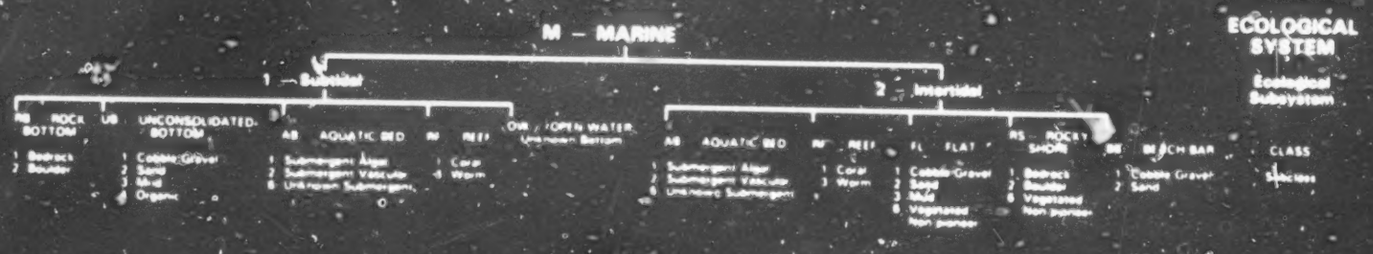

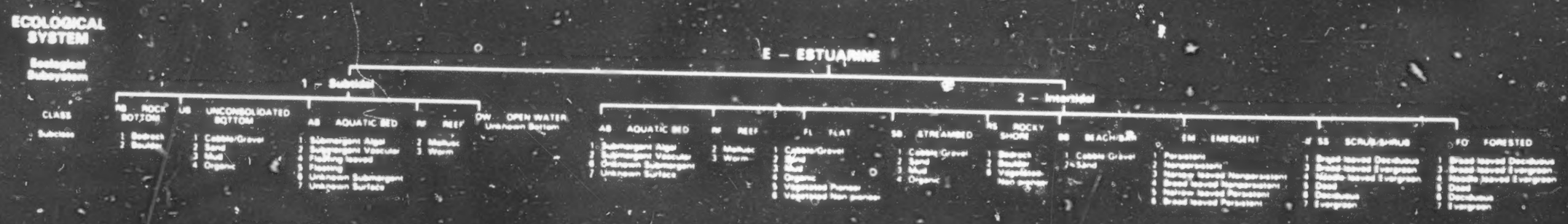

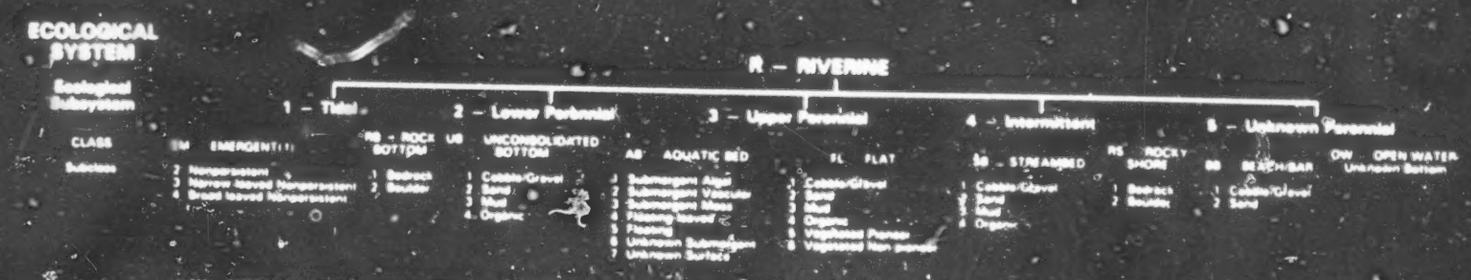

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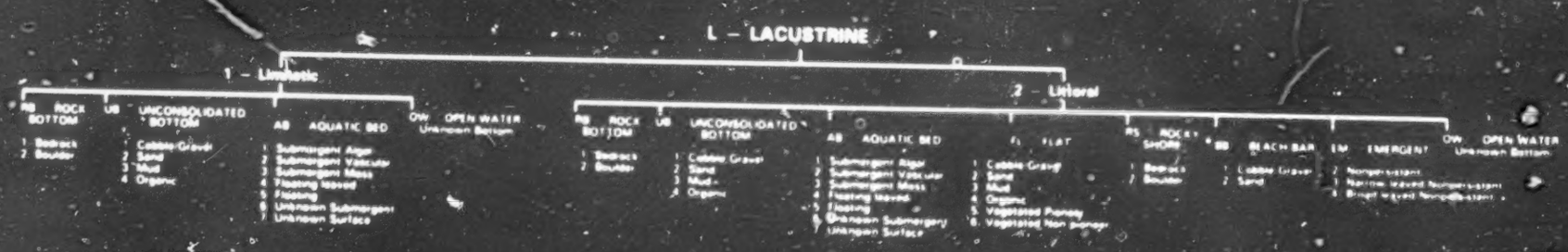

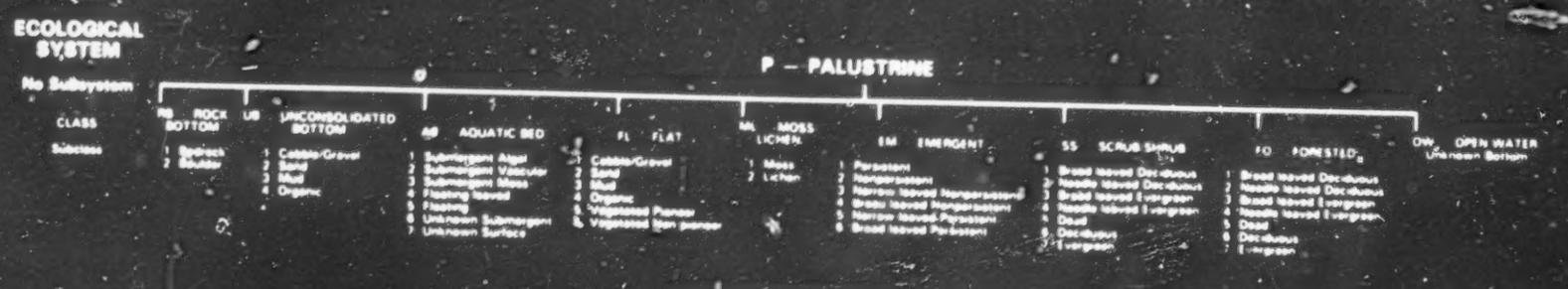

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- A Temporary
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- C Seasonal
- D Seasonal Well-drained
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- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- V Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- L Artificial
- M Subtidal
- N Irregularly Exposed
- O Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 9 Hypersaline
- 7 Eusaline
- 6 Mixosaline (Brackish)
- 4 Polysaline
- 3 Mixosaline
- 2 Oligosaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 6 Eusaline
- 5 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- l Alkaline

SOIL
- 9 Organic
- n Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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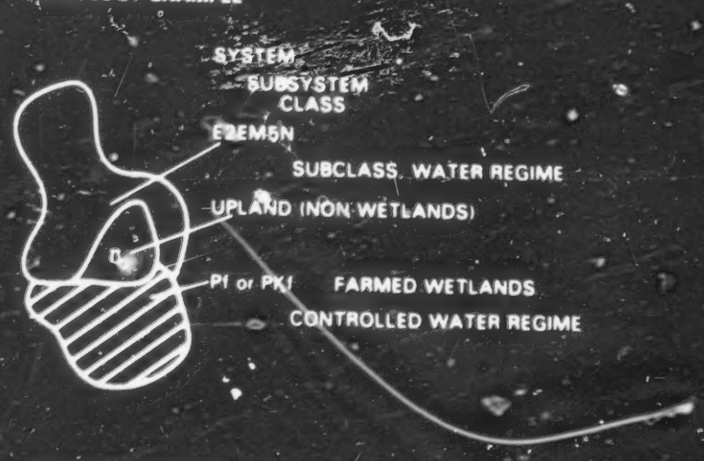

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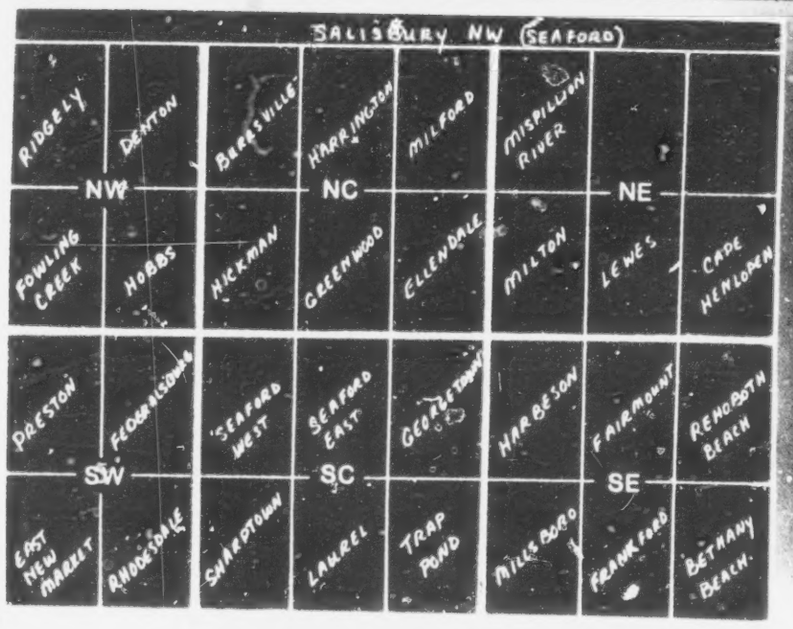
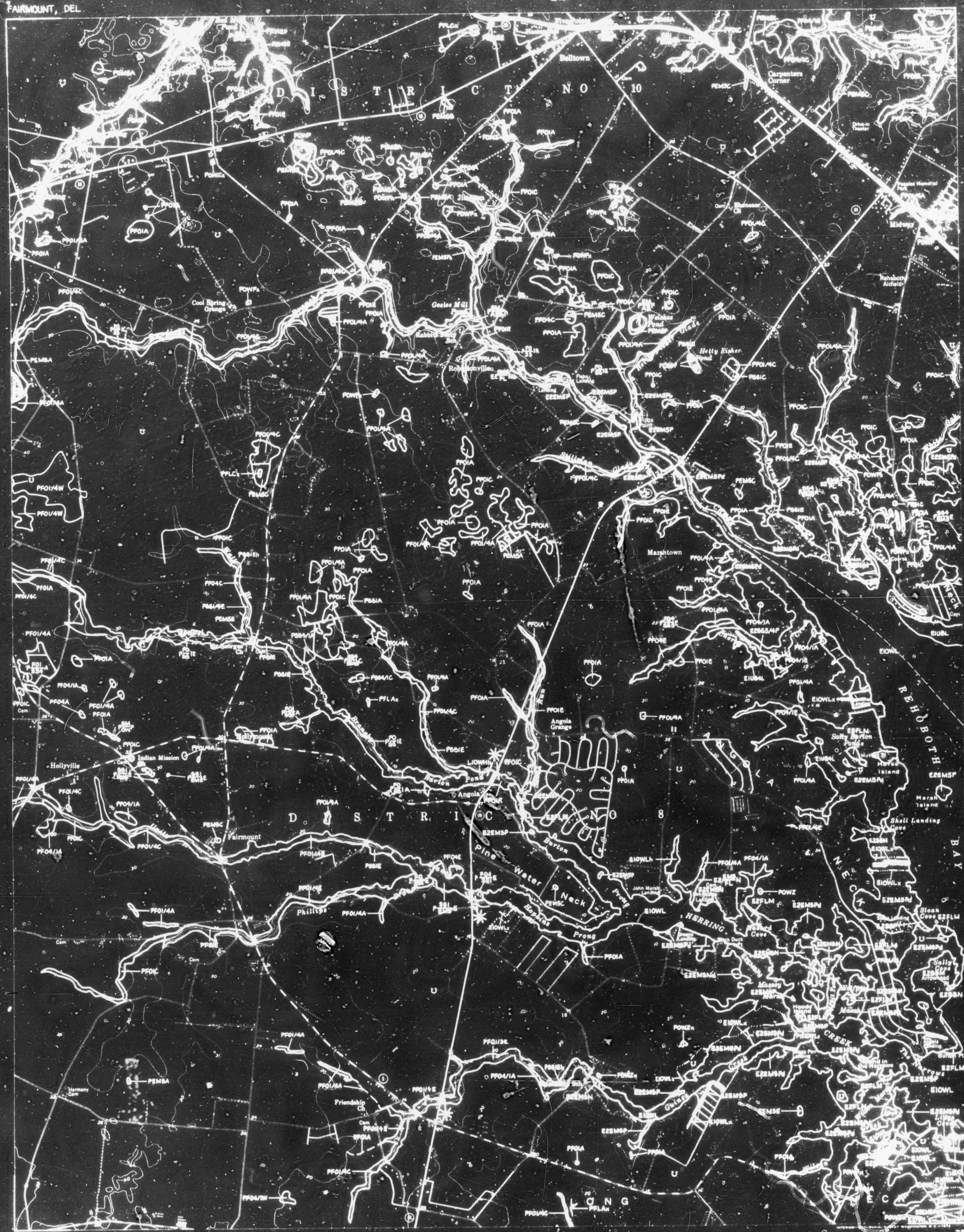


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

SLS-2

FAIRMOUNT, DEL



SALISBURY NW

SEAFORD

SCALE 1:24000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

AERIAL PHOTO 4/81

FAIRMOUNT, DEL

38°37'30"

75°07'30"

WETLAND LEGEND

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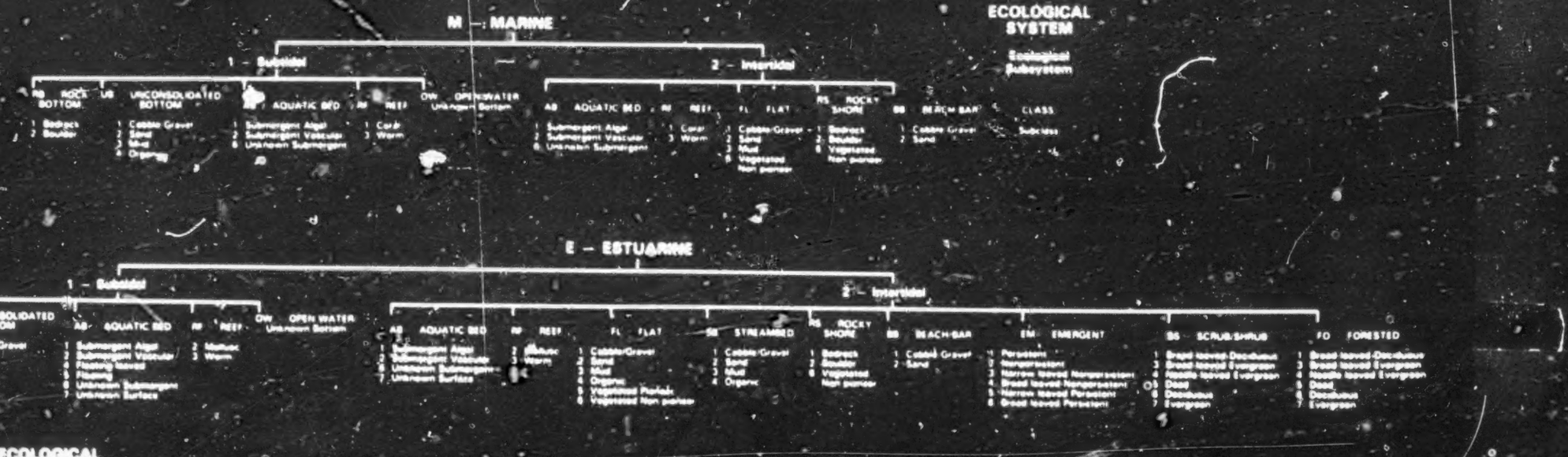

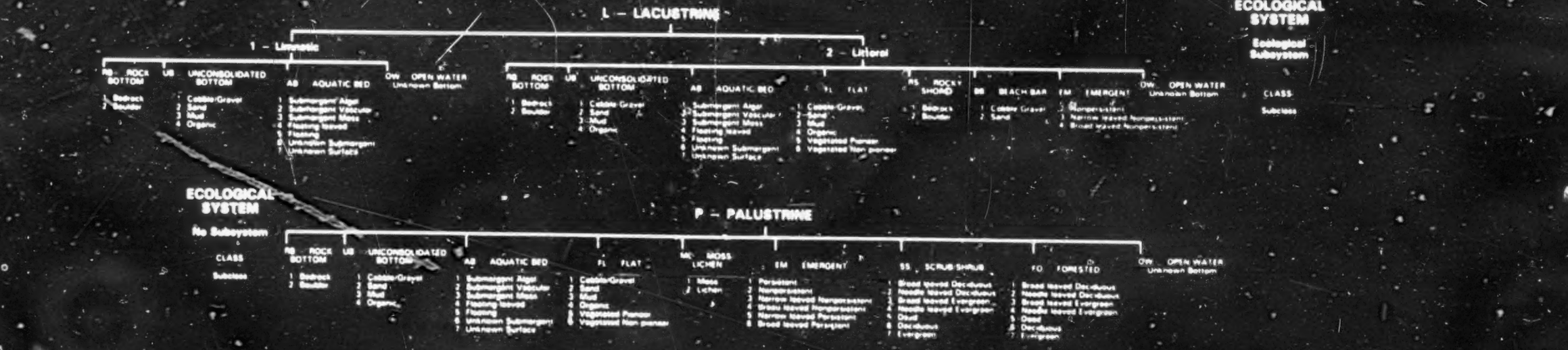

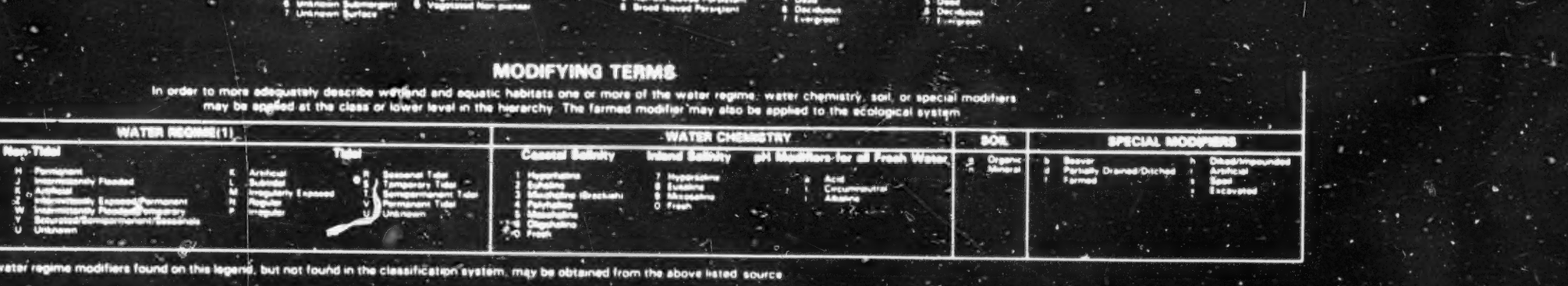

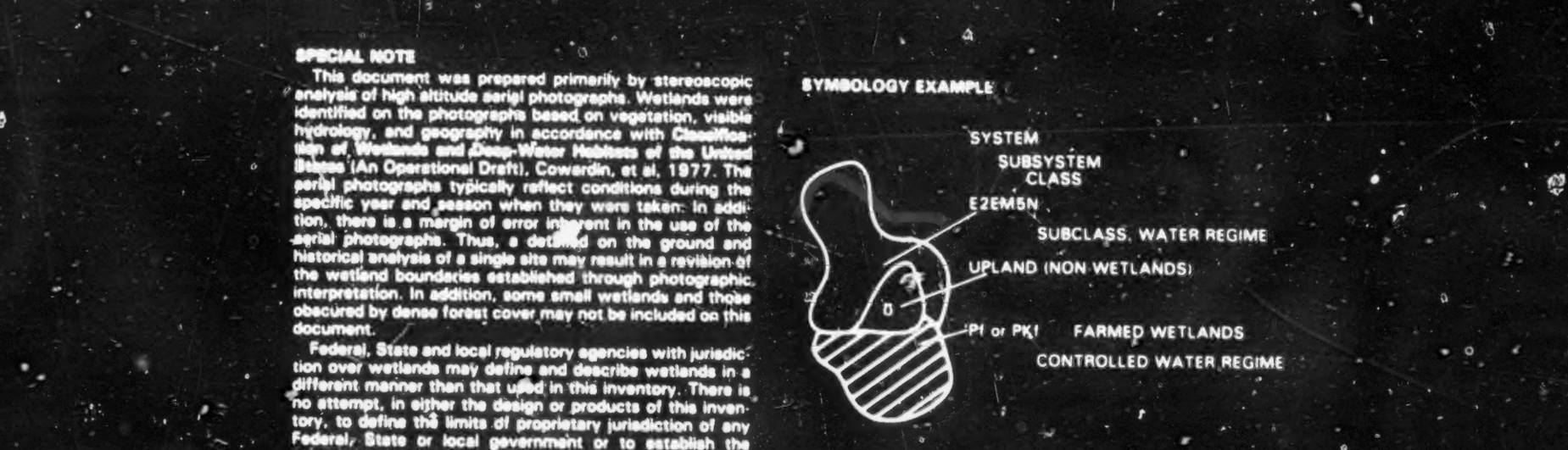

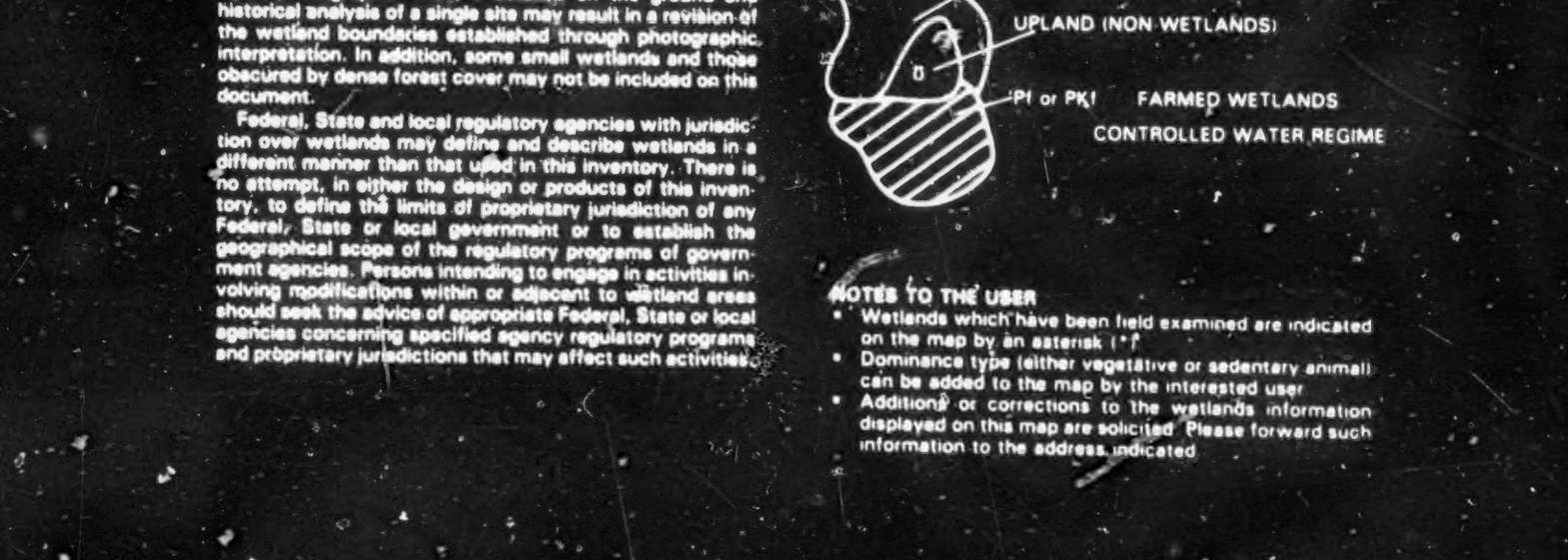

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Non-Tidal	Tidal	Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water		
A Temporary	H Permanent	1 Hyperhaline	7 Hyperhaline	a Acid	b Beaver	h Diked/Impounded
B Saturated	J Intermittently Flooded	2 Euhaline	8 Eusaline	i Circumneutral	d Partially Drained/Ditched	i Artificial
C Seasonal	K Artificial	3 Mesohaline (Brackish)	9 Mesosaline	t Alkaline	f Farmed	r Road
D Seasonal Well-drained	L Intermittently Exposed/Permanent	4 Polyhaline	0 Fresh			s Excavated
E Seasonal Saturated	M Intermittently Flooded/Temporary	5 Mixohaline				
F Semipermanent	P Saturated/Semipermanent/Seasonal	6 Oligohaline				
G Intermittently Exposed	U Unknown	0 Fresh				

Tidal: R Seasonal Tidal; S Temporary Tidal; T Semipermanent Tidal; V Permanent Tidal; U Unknown

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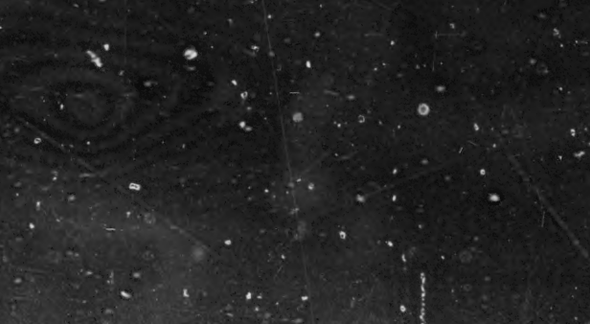
SYMBOLOGY EXAMPLE



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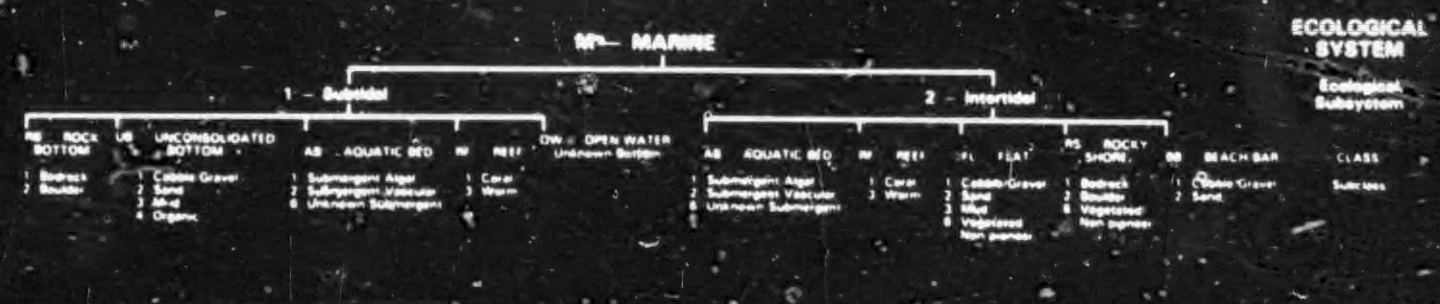
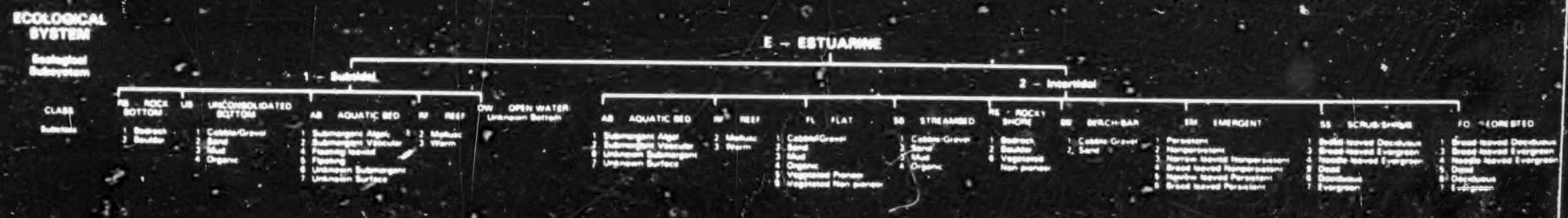
NATIONAL WETLANDS INVENTORY

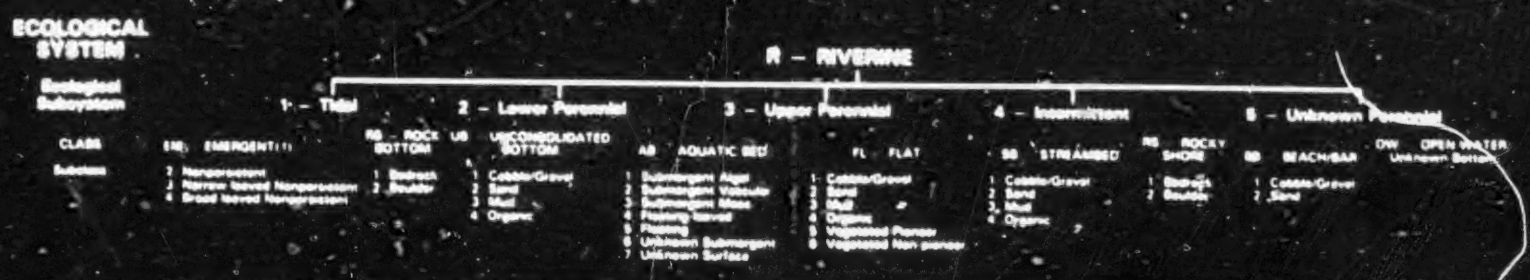
A T L A N T I C
O C E A N
R E H O B O T H
B A Y
D I S T R I C T
Rehoboth Beach
Dewey Beach
Indian Beach
Bald Eagle Point
White Oak Point
Trailer Park
Gem
Dead Marsh
Big Piney Island
Big Neck Island
Little Beach Island
Big Beach Island
Rush Island
Cove
Light
Tower
E2FLM
E2EMSN
E2SSN
E2SSM/AN
E2SSM/AP
E2SSN/AP
E2SSN/AM
E2SSN/AN
E2SSN/AM/P
E2SSN/AM/N
E2SSN/AN/P
E2SSN/AN/M
E2SSN/AN

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.







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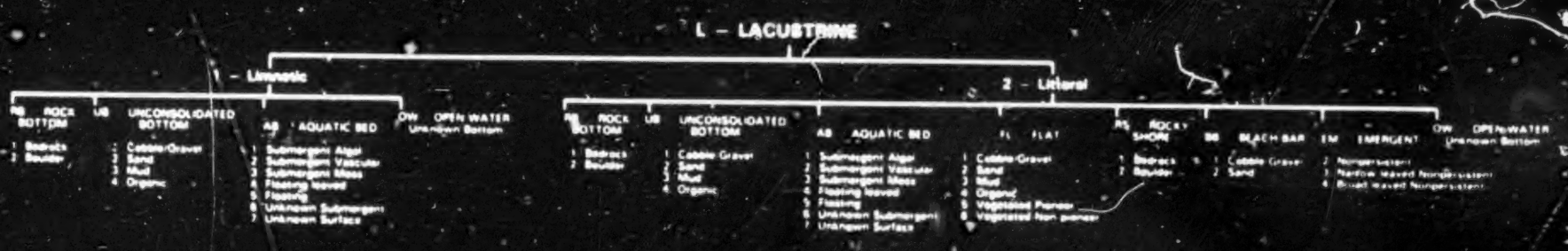

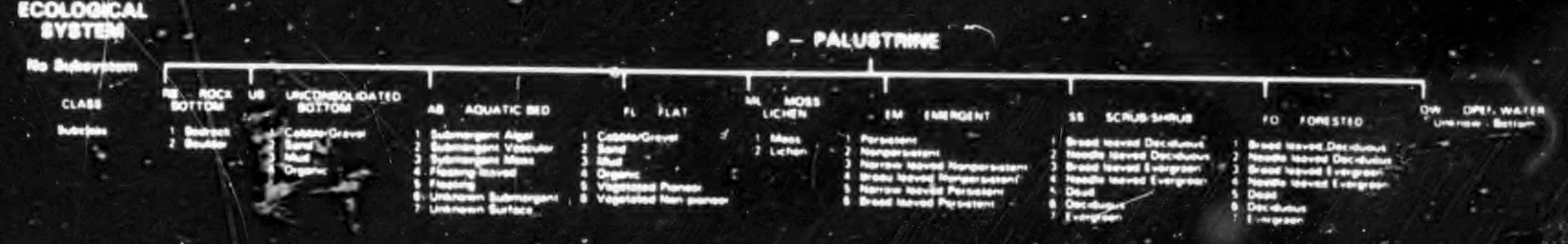

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- J Permanent
- K Intermittently Flooded
- L Artificial
- M Intermittently Exposed/Permanent
- N Intermittently Flooded/Temporary
- V Saturated/Semipermanent/Seasonal
- U Unknown

Tidal

- X Artificial
- Y Subtidal
- Z Irregularly Exposed
- R Regular
- P Irregular
- S Seasonal Tidal
- T Temporary Tidal
- W Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hypersaline
- 2 Eusaline
- 3 Mixosaline
- 4 Polysaline
- 5 Mesosaline
- 6 Oligosaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water

- a Acid
- i Circumneutral
- b Alkaline

SOIL

- g Organic
- m Mineral

SPECIAL MODIFIERS

- f Beaver
- d Partially Drained/Ditched
- r Farmed
- h Diked/Impounded
- x Artificial
- s Spoil
- e Excavated

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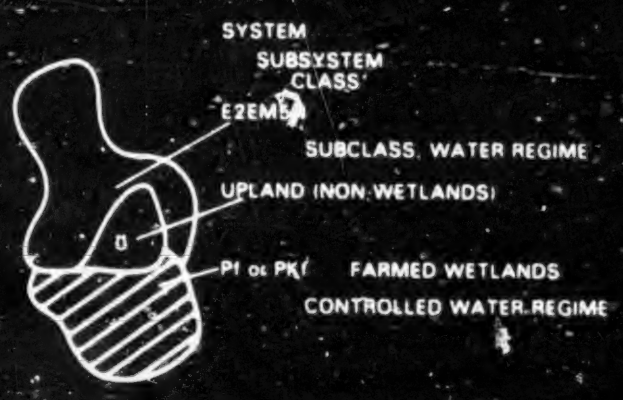

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NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

MILLSBORO, DEL.

1-515-7

SALISBURY NW
SEAFORD

38°30'
75°15'

28

AERIAL PHOTO 4/81

MILLSBORO, DEL

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 MILE
1 KILOMETER

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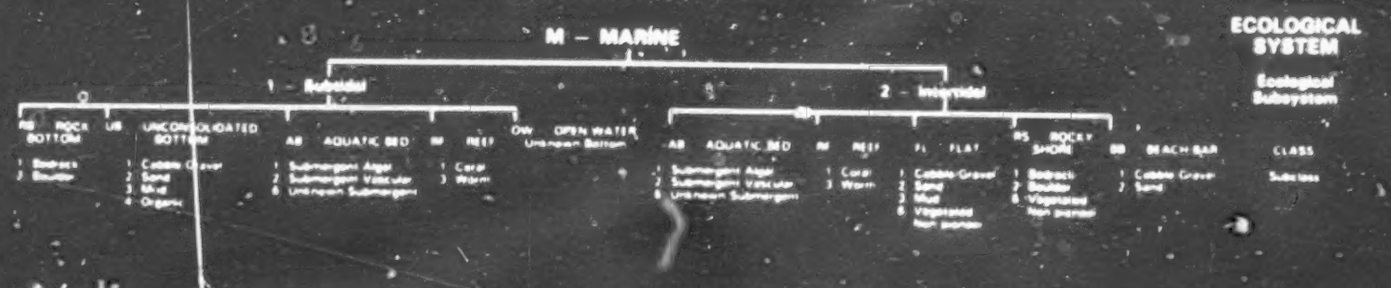

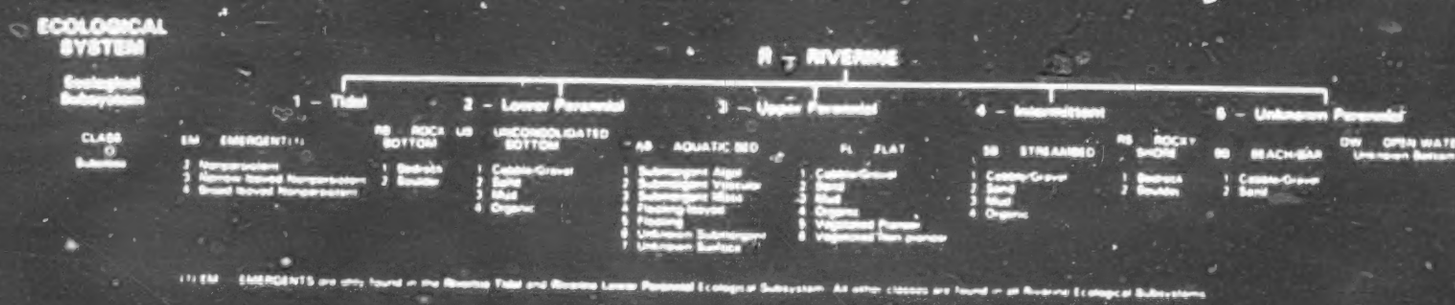

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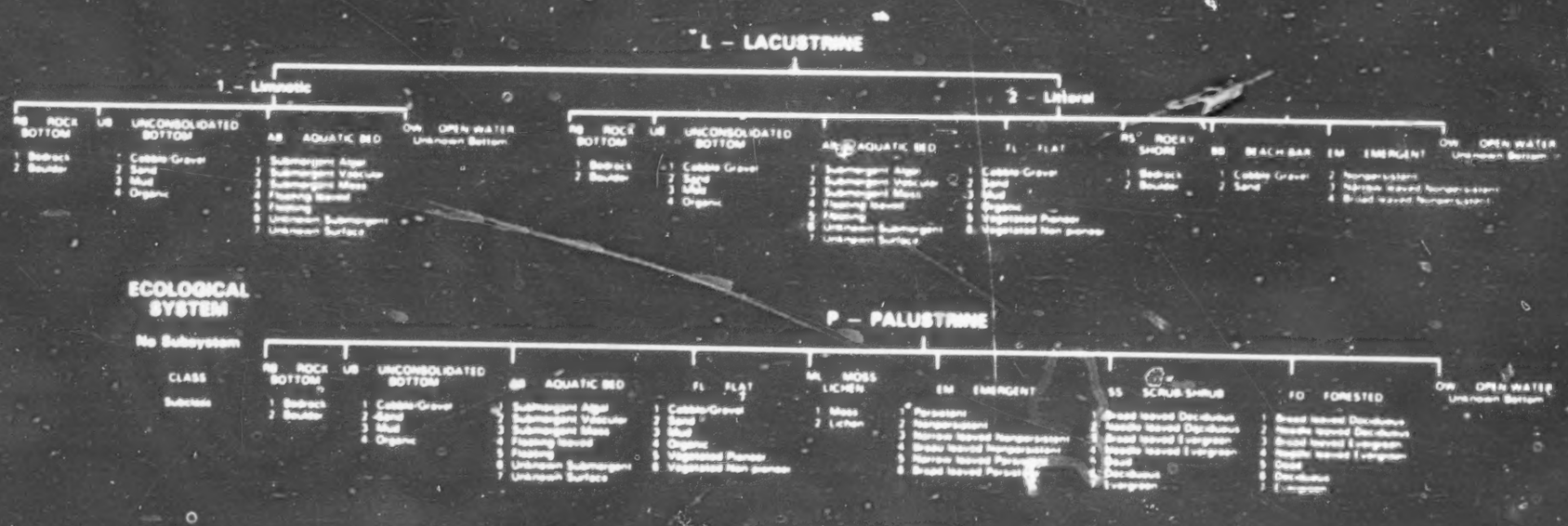

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B Saturated	J Intermittently Flooded	L Subtidal	T Temporary Tidal	2 Eusaline	8 Eusaline	5 Circumneutral	2 Mineral	d Partially Drained/Ditched	r Artificial
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F Semipermanent	A Intermittently Flooded/Semipermanent	P Irregularly	W Unknown	5 Hyperhaline					
G Intermittently Exposed	B Intermittently Flooded/Permanent			6 Euhaline					
	C Artificially Flooded/Semipermanent			9 Fresh					
	U Unknown								

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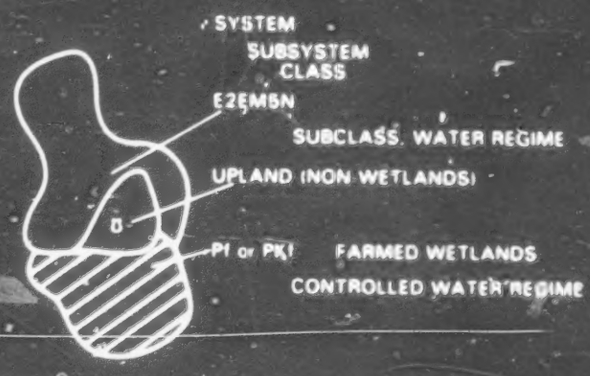

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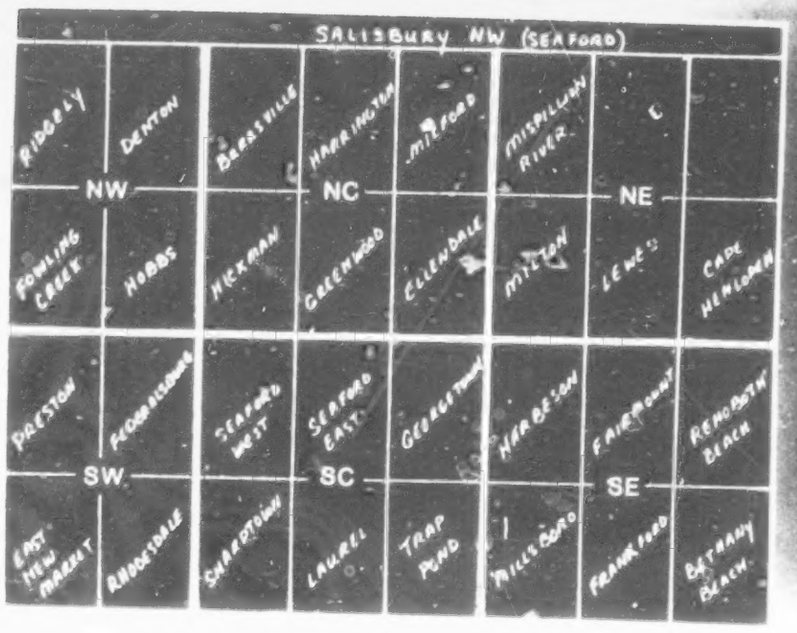
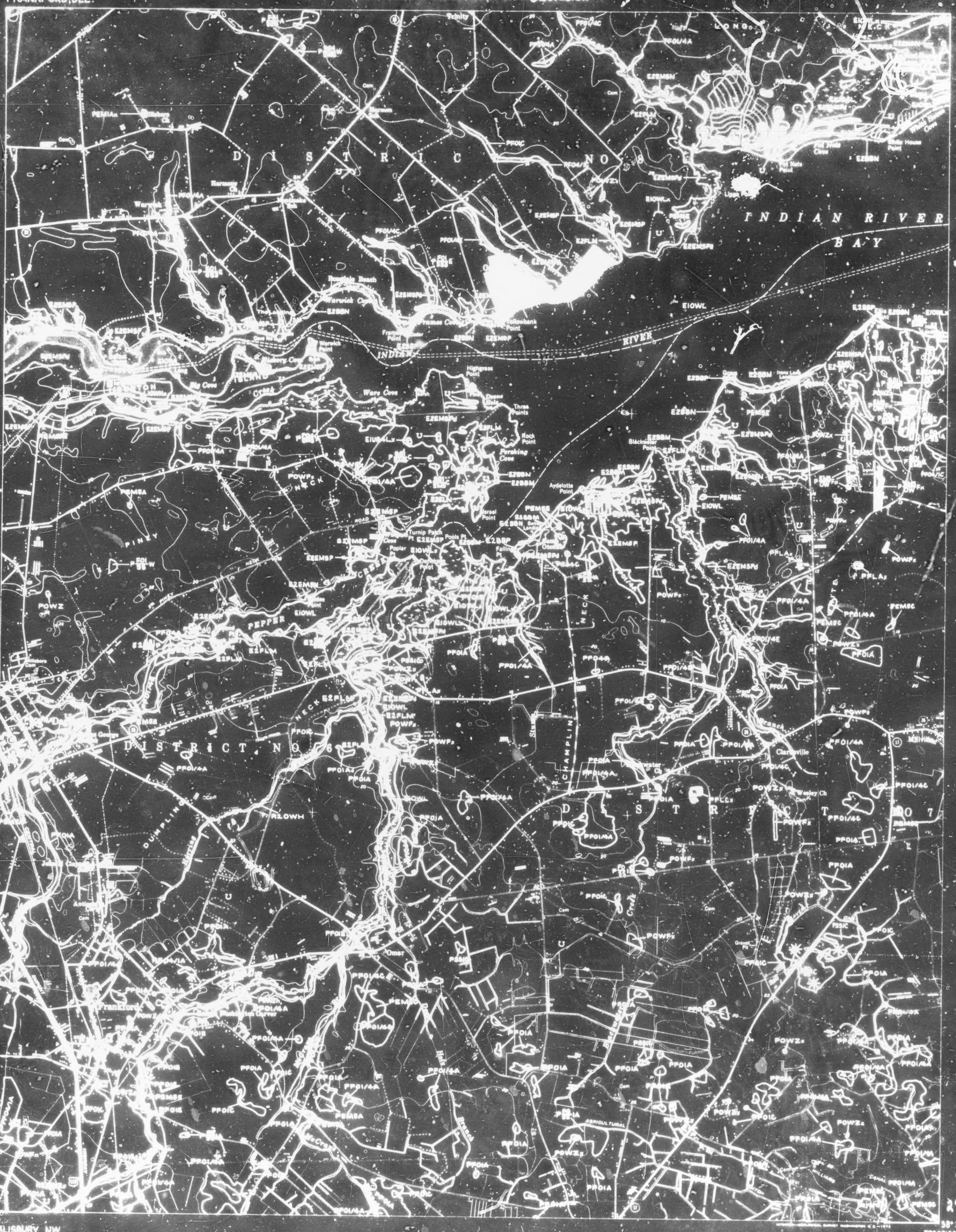


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

FRANKFORD, DEL.


DISTRICT NO 8
INDIAN RIVER BAY
DISTRICT NO 6
DISTRICT NO 7
PINEY NECK
PEPPER NECK
CHAMPLIN NECK
DUMPLIN ISLAND
Trinity
Warwick
Fountain Beach
Wares Cove
Highgrass Point
Three Points
Rock Point
Pershing Cove
Aydelotte Point
Turnip Patch Pt
Pools Pt
Fallin Pt
Oyster Pt
Yellowbank Point
Warwick Point
Frenches Point
Long Point
Lloyd Point
Blackwater Point
Gravel Pit
Clarksville
Omar
Frankford
PEMBA
PEMBE
PEMBF
PEMBH
PEMBJ
PEMBC
PEMSA
PEMSC
PEMSE
PEMSF
PEMSH
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PFO4C
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PFO1/4Ev
PFO1/4Eu
PFO1/4Et
PFO1/4Es
PFO1/4Er
PFO1/4Eq
PFO1/4Ep
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PFO1/4Ce
PFO1/4Cd
PFO1/4Cc
PFO1/4Cb
PFO1/4Ca
PFO1/4Ex
PFO1/4Ez
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POWZg
POWZf
POWZe
POWZd
POWZc
POWZb
POWZa
E1OWL
E2BBM
E2BBN
E2BBP
E2EMSN
E2EMSP
E2FLM
E2FLN
E2SBN
E2SBP
E2EMSPd
E2EMSPi
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E2EMSPo
E2EMSPq
E2EMSPs
E2EMSPt
E2EMSPu
E2EMSPv
E2EMSPw
E2EMSPx
E2EMSPy
E2EMSPz
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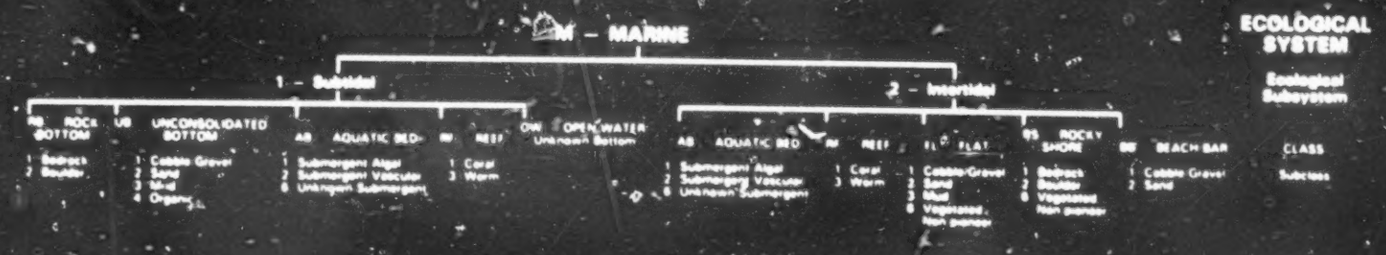

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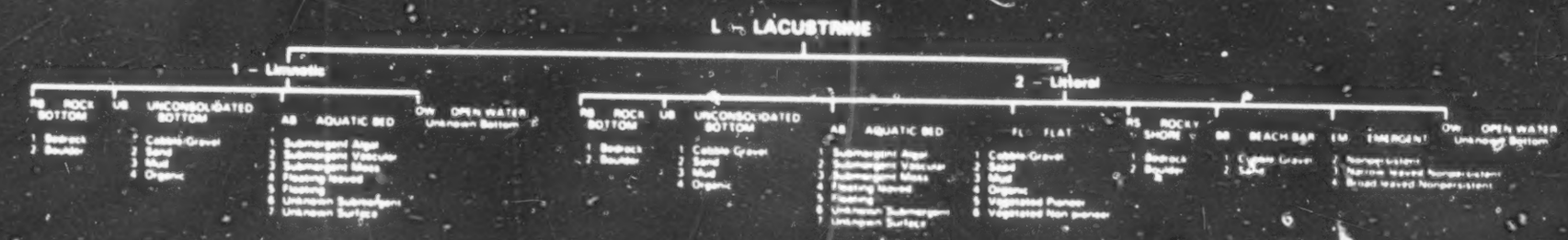

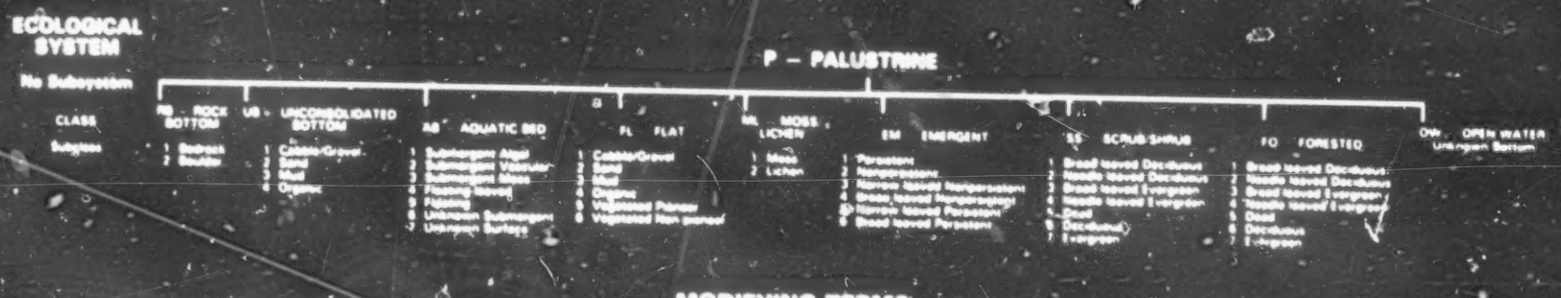

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E Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal	4 Polyhaline	5 Polysaline		g Diked/Impounded
F Semipermanent	Y Permanent/Semipermanent/Seasonal	P Irregular	U Unknown	5 Euhaline	6 Euhaline		r Artificial
G Intermittently Exposed	U Unknown			6 Hyperhaline	7 Hyperhaline		s Spoil
				0 Fresh	8 Mixohaline		v Excavated
					0 Fresh		

pH Modifiers for all Fresh Water: 8 Alkaline; 7 Circumneutral; 1 Acid

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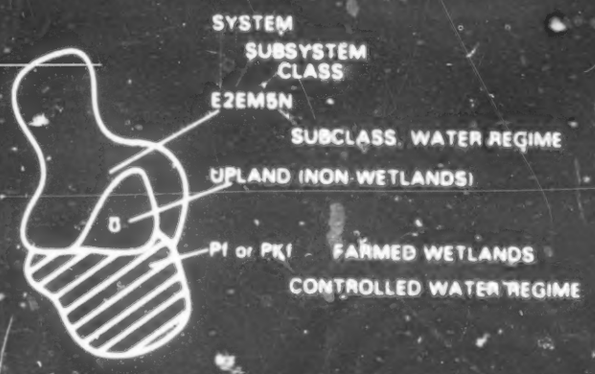

NOTES TO THE USER

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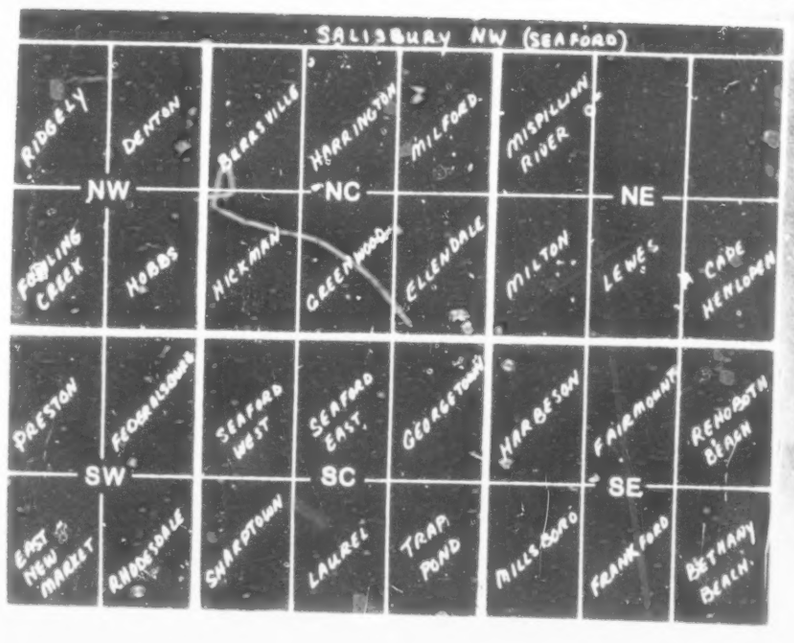
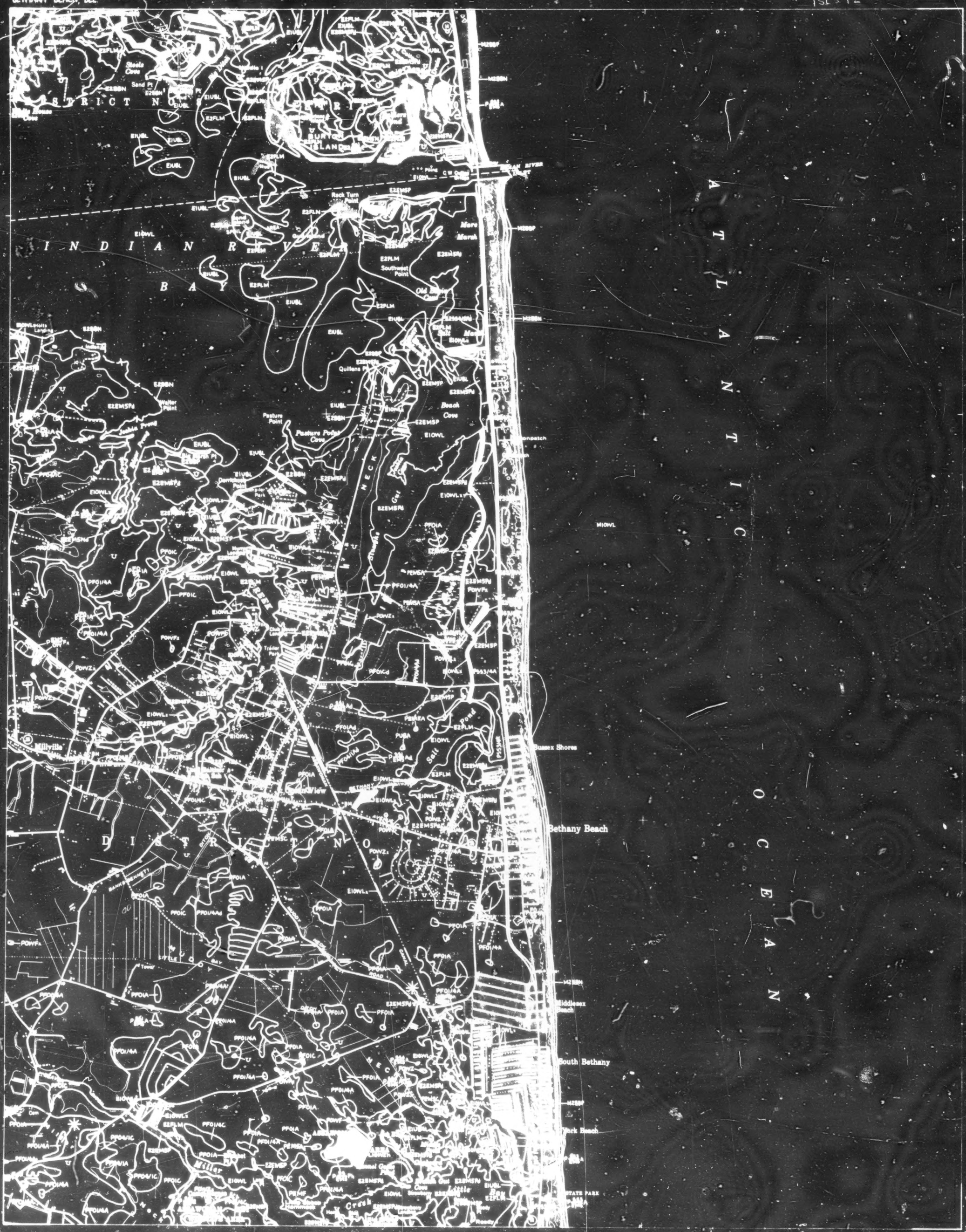


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

BETHANY BEACH, DEL.

1St 5-12



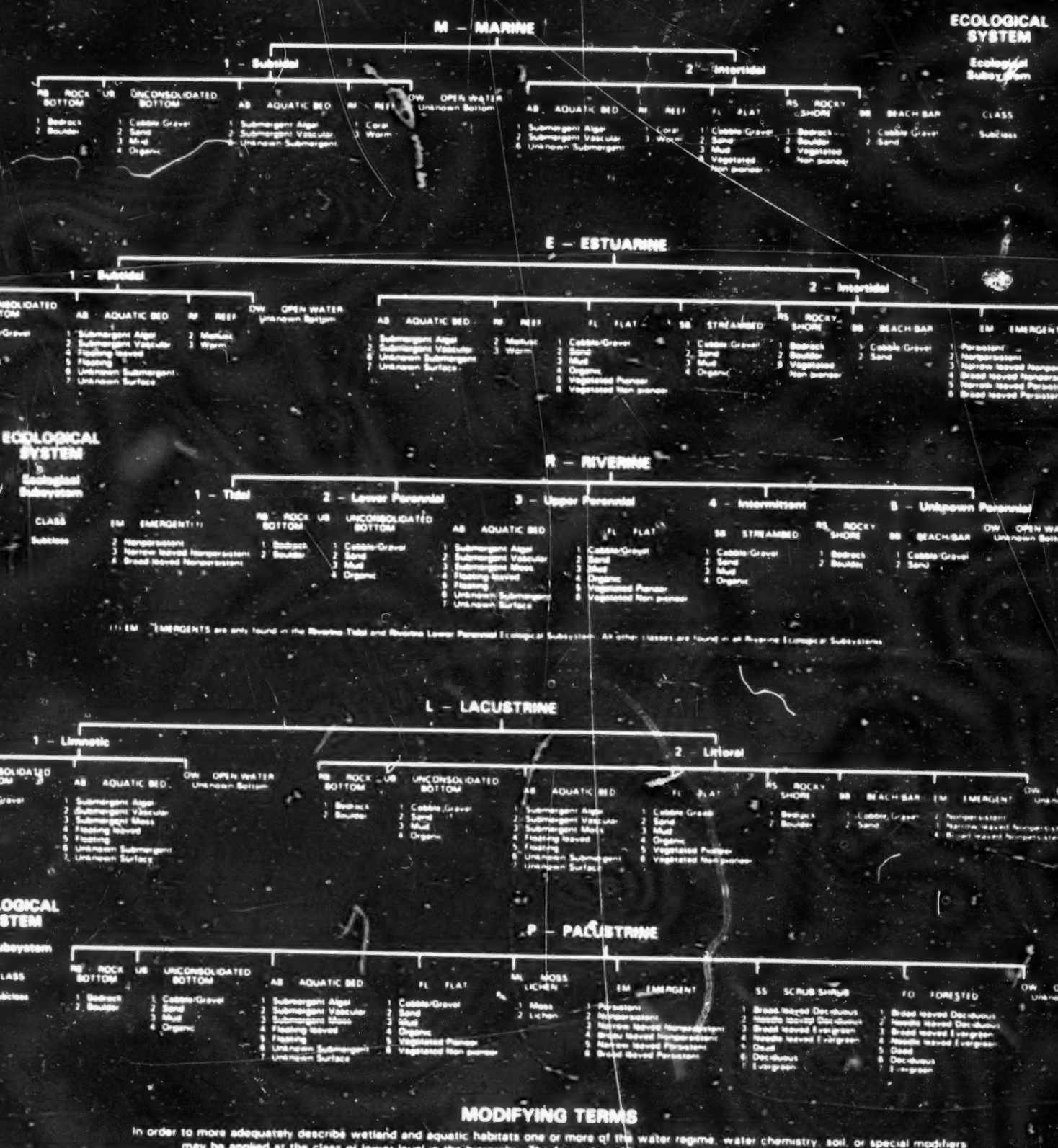
SALISBURY NW
SEAFORD

SCALE 1:24 000

BETHANY BEACH, DEL

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal		Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water		
A Temporary	H Permanent	K Artificial	R Seasonal Tidal	1 Hypersaline	Z Hypersaline	a Acid	O Organic	b Beaver
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal	2 Eusaline	Y Eusaline	c Circumneutral	M Mineral	d Partially Drained/Ditched
C Seasonal	R Artificial	M Irregularly Exposed	T Permanent Tidal	3 Mesohaline (Brackish)	X Mesohaline	i Alkaline		f Farmed
D Intermittently Exposed	Z Intermittent, Exposed/Permanent	N Regular	V Permanent Tidal	4 Polyhaline	W Polyhaline			h Diked/Impounded
E Seasonal Well Drained	Y Intermittent, Flooded/Temporary	P Irregular	U Unknown	5 Euhaline	V Euhaline			r Artificial
F Seasonal Saturated	W Permanently Flooded			6 Hyperhaline	U Hyperhaline			s Spoil
G Temporarily Flooded	V Intermittently Exposed/Permanent			8 Oligohaline	0 Fresh			x Excavated
H Intermittently Exposed	U Unknown			0 Fresh				

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

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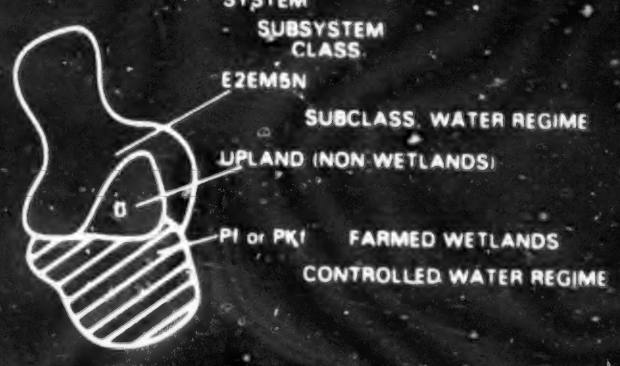

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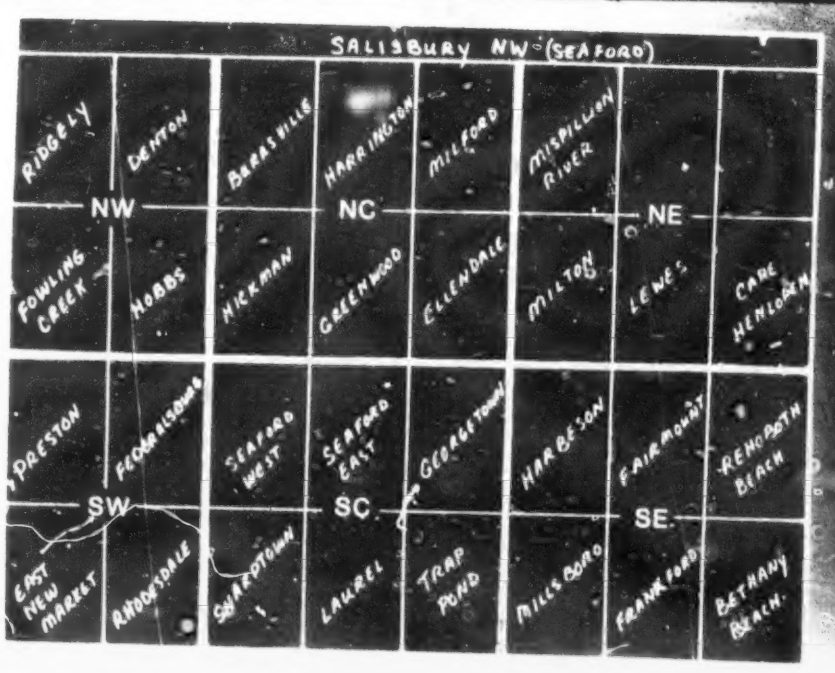
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